

Wellhead Closure Checklist

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

Additional attachments (optional):		Pit Closure --		Tank Battery Closure --		Flowline Closure 5-24-22		Partially Buried Vault Closure --	
Site Name & COGCC Facility Number: Cody #D #3-7		Date: 4-15-22					Remediation Project #: 22154		
Associated Wells: 05-123-19037		Age of Site: years					Number of Photos Attached: 1		
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)						40.255890 / -104.534770			Estimated Facility Size (acres):
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)									
Good condition									
USCS Soil Type: SC				Estimated Depth to Groundwater: ~15-20'					
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	05-123-19037								
Age	years								
Condition of surface around wellhead	Good - Per Crew								
PID Readings	N/A - Excavated upon arrival								
Condition of subsurface (staining present)	Good - No odor/no staining								
PID Readings	0.7	0.3	0.2	0.3	0.9				
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:									
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: 5				Total number of samples collected: 5					
Highest PID Reading: 0.9				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:					
N/A									
Lateral extent:				Volume of soil removed:					
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

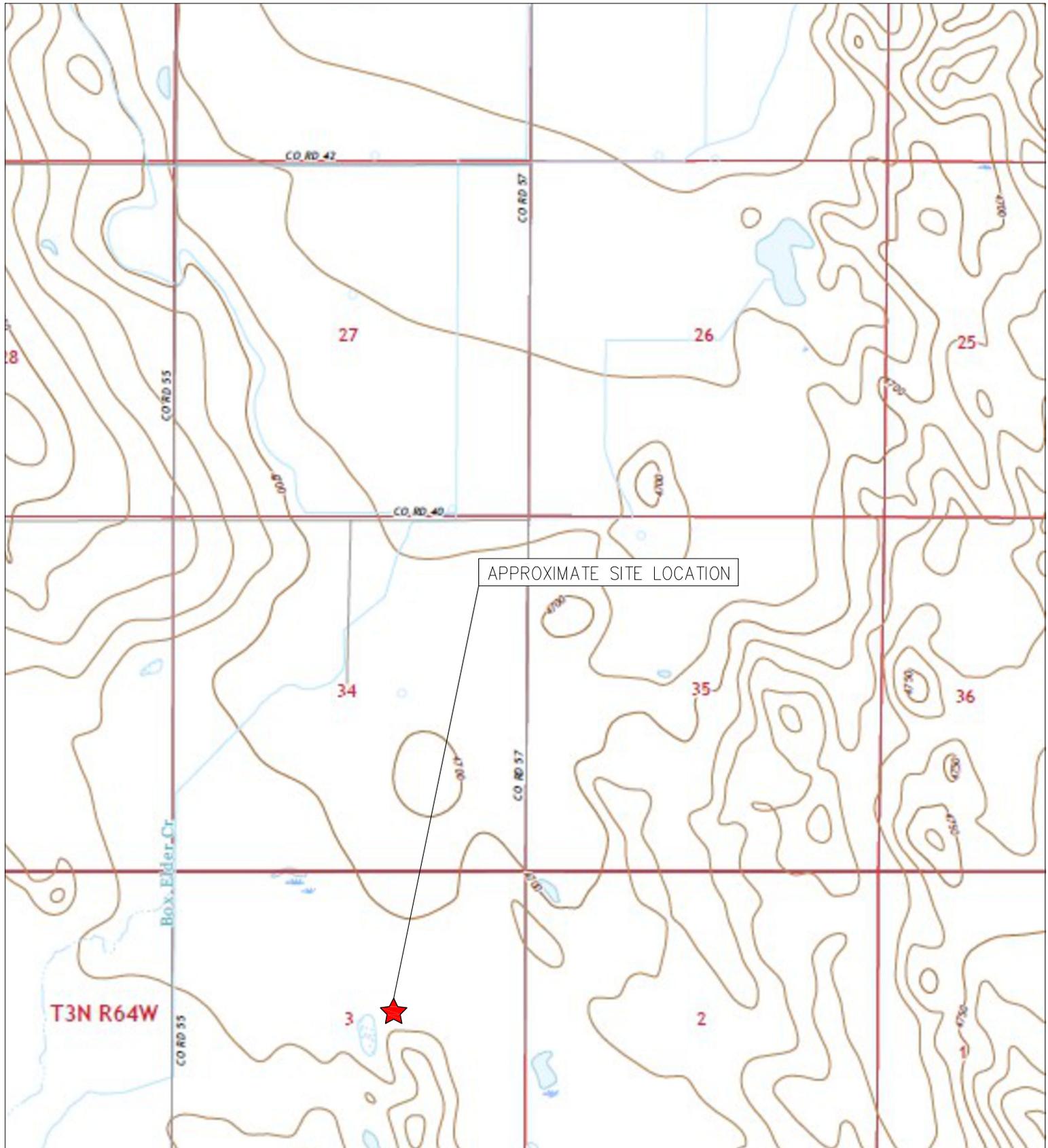
Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Polycyclic Aromatic Hydrocarbons Map

Figure 5: Metals in Soil Map



TOPOGRAPHIC SITE LOCATION MAP
 CODY #D #3-7
 CLOSURE ASSESSMENT
 40.255890 / -104.534770
 SW¼ NE¼ SEC.3 T3N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-19037
 REMEDIATION # 22154



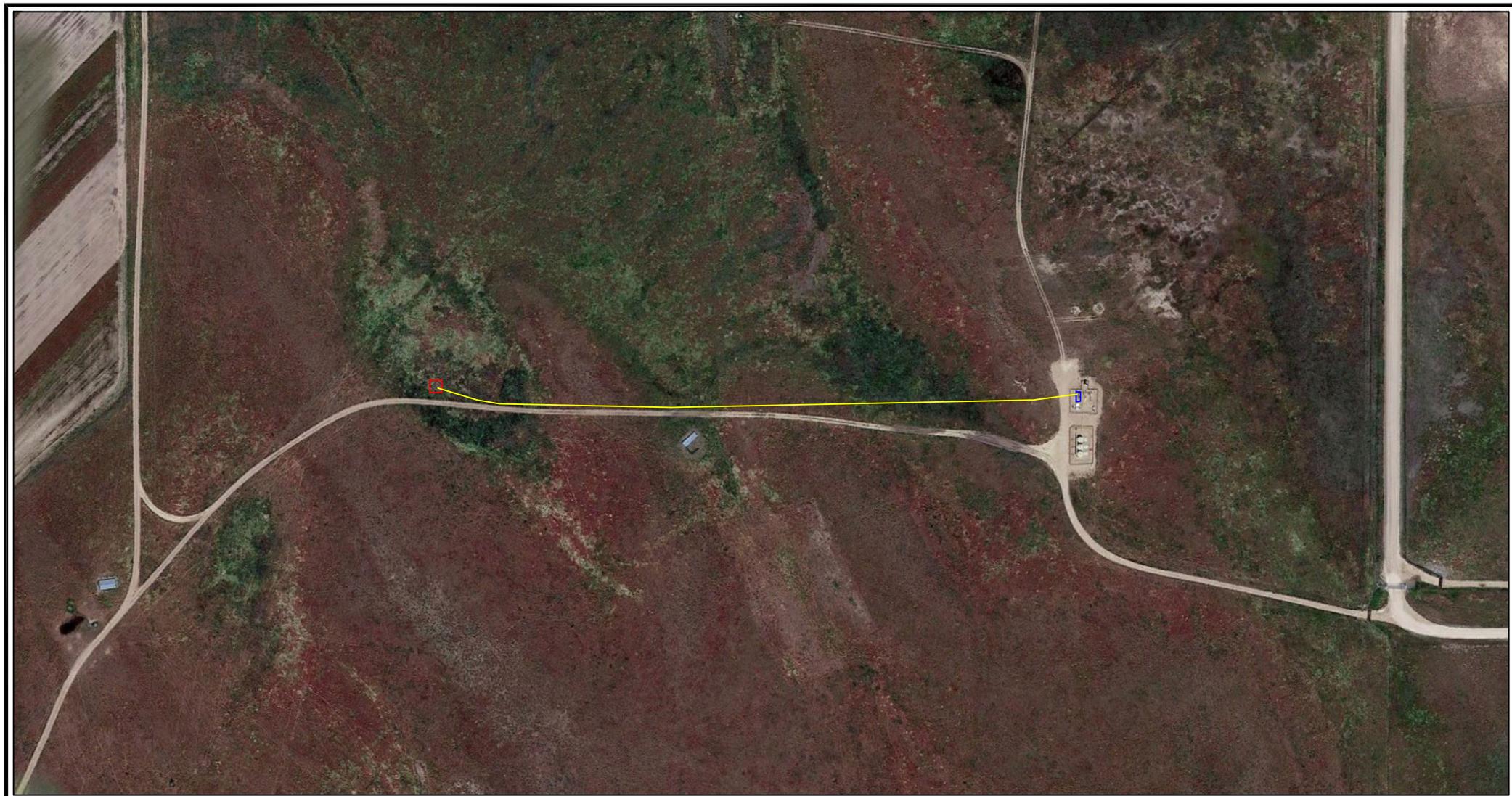
EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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



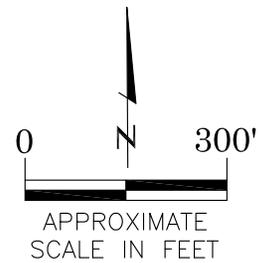
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP
 VALLEY VIEW SCHOOL, CO QUADRANGLE 2022

FIGURE NO. 1



LEGEND

- FORMER CODY #D #3-7 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION (REMOVED)



AERIAL SITE LOCATION MAP
CODY #D #3-7
CLOSURE ASSESSMENT
40.255890 / -104.534770
SW $\frac{1}{4}$ NE $\frac{1}{4}$ SEC.3 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-19037
REMEDATION # 22154

FIGURE NO.

2

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LEGEND

- FORMER WELLHEAD LOCATION
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- 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)
 G = TPH-GRO (mg/kg)
 D = TPH-DRO (mg/kg)
 R = TPH-RRO (mg/kg)
 1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)
 1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)
 Brn= BORON (mg/L)
 EC = SPECIFIC CONDUCTANCE (mmhos/cm)
 SAR= SODIUM ADSORPTION RATIO
 pH = pH (pH UNITS)

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

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

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

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

VALUES PRESENTED WITH ASTERISK (*) EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS, ONLY.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

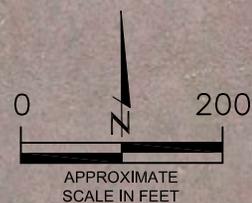
SOIL ANALYTICAL MAP
 CODY #D #3-7
 CLOSURE ASSESSMENT
 40.255890 / -104.534770
 SW¼ NE¼ SEC.3 T3N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-19037
 REMEDIATION # 22154

FIGURE NO.
3

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WH-FS-01@6'
 04/15/22
 6'
 B = <0.00200
 T = <0.00200
 E = <0.00200
 X = <0.00200
 G = <0.200
 D = <25.0
 R = <100
 1,2,4-TMB = <0.00200
 1,3,5-TMB = <0.00200
 Brn= **2.21**
 EC = **5.47**
 SAR= **8.06**
 pH = 8.09

FL-SS-01@3'
 05/23/22
 3'
 B = <0.00200
 T = <0.00200
 E = <0.00200
 X = <0.00200
 G = <0.200
 D = <25.0
 R = <100
 1,2,4-TMB = <0.00200
 1,3,5-TMB = <0.00200
 Brn= <0.101
 EC = 0.218
 SAR= 0.0859
 pH = 8.27

BACKGROUND-02@2'
 05/24/22
 2'
 pH = **9.36**

BACKGROUND-01@3'
 04/15/22
 3'
 Brn= **2.46**
 EC = **6.50**
 SAR= **9.93**

FL-SS-12@3'
 05/24/22
 3'
 B = **0.216***
 T = 0.590
 E = 0.140
 X = 3.58
 G = 26.5
 D = 184
 R = <100
 1,2,4-TMB = **0.324***
 1,3,5-TMB = **0.164***
 Brn= 1.18
 EC = 1.76
 SAR= 3.07
 pH = **8.31**



WH-FS-01@6'
04/15/22
6'
ND = <0.00067
1-Methylnaphthalene = ND
2-Methylnaphthalene = ND
Acenaphthene = ND
Anthracene = ND
Benzo(a)anthracene = ND
Benzo(a)pyrene = ND
Benzo(b)fluoranthene = ND
Benzo(k)fluoranthene = ND
Chrysene = ND
Dibenzo(a,h)anthracene = ND
Fluoranthene = ND
Fluorene = ND
Indeno(1,2,3-CD)pyrene = ND
Naphthalene = ND
Pyrene = ND

FL-SS-01@3'
05/23/22
3'
ND = <0.00335
1-Methylnaphthalene = ND
2-Methylnaphthalene = ND
Acenaphthene = ND
Anthracene = ND
Benzo(a)anthracene = ND
Benzo(a)pyrene = ND
Benzo(b)fluoranthene = ND
Benzo(k)fluoranthene = ND
Chrysene = ND
Dibenzo(a,h)anthracene = ND
Fluoranthene = ND
Fluorene = ND
Indeno(1,2,3-CD)pyrene = ND
Naphthalene = ND
Pyrene = ND

FL-SS-12@3'
05/24/22
3'
ND = <0.0067
1-Methylnaphthalene = **0.693***
2-Methylnaphthalene = **1.47***
Acenaphthene = 0.0783
Anthracene = 0.00152
Benzo(a)anthracene = **0.0146***
Benzo(a)pyrene = ND
Benzo(b)fluoranthene = ND
Benzo(k)fluoranthene = 0.000712
Chrysene = 0.0151
Dibenzo(a,h)anthracene = ND
Fluoranthene = 0.000863
Fluorene = 0.111
Indeno(1,2,3-CD)pyrene = ND
Naphthalene = **0.309***
Pyrene = 0.0106

LEGEND

-  FORMER WELLHEAD LOCATION
-  APPROXIMATE FLOWLINE LOCATION (REMOVED)
-  APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
-  APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)

NOTE:
CONCENTRATIONS PRESENTED IN mg/kg

mg/kg = MILLIGRAMS PER KILOGRAM

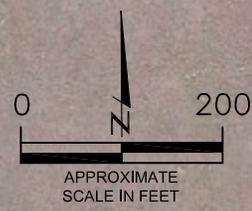
ND = NON-DETECT

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

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

VALUES PRESENTED WITH ASTERISK (*) EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS, ONLY.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION



POLYCYCLIC AROMATIC HYDROCARBONS MAP

CODY #D #3-7
CLOSURE ASSESSMENT
40.255890 / -104.534770
SW¼ NE¼ SEC.3 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-19037
REMEDIATION # 22154

FIGURE NO.
4

DRAWN BY:
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LEGEND

- FORMER WELLHEAD LOCATION
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- 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

(NS) – NOT SAMPLED

NOTE:

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

VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 915-1 VALUES

*VAUES EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS, ONLY.

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

***ARSENIC IS NATURALLY OCCURRING IN COLORADO. LOCAL CLEAN-UP LEVEL (2.13 mg/kg) is 1.25*BACKGROUND (1.70 mg/kg).

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

METALS IN SOIL MAP

CODY #D #3-7
 CLOSURE ASSESSMENT
 40.255890 / -104.534770
 SW¼ NE¼ SEC.3 T3N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-19037
 REMEDIATION # 22154

FIGURE NO.

5

DRAWN BY:

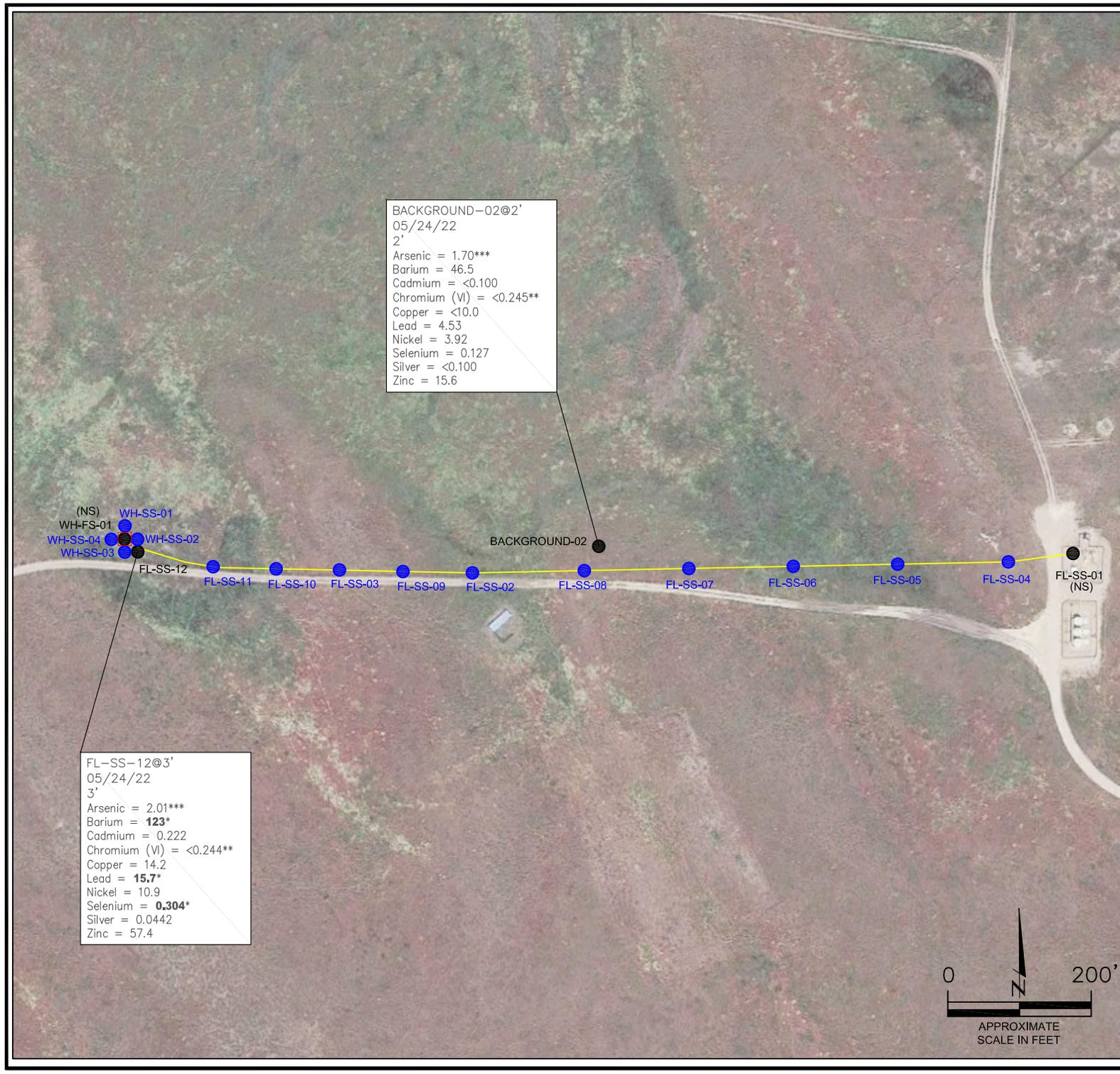
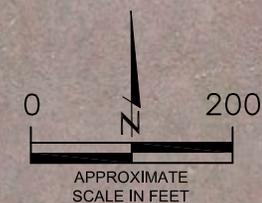
GEK



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 CONSULTING, LLC
 8000 W 44th Ave, Wheat Ridge, CO 80033
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BACKGROUND-02@2'
 05/24/22
 2'
 Arsenic = 1.70***
 Barium = 46.5
 Cadmium = <0.100
 Chromium (VI) = <0.245**
 Copper = <10.0
 Lead = 4.53
 Nickel = 3.92
 Selenium = 0.127
 Silver = <0.100
 Zinc = 15.6

FL-SS-12@3'
 05/24/22
 3'
 Arsenic = 2.01***
 Barium = **123***
 Cadmium = 0.222
 Chromium (VI) = <0.244**
 Copper = 14.2
 Lead = **15.7***
 Nickel = 10.9
 Selenium = **0.304***
 Silver = 0.0442
 Zinc = 57.4





TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
CODY #D #3-7
CLOSURE ASSESSMENT
40.255890 / -104.534770
SW¼ NE¼ SEC.3 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-19037
REMEDIATION # 22154

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.255902 / -104.534795)	04/15/22	5	0.7	N
WH-SS-02 @ 5' (40.255886 / -104.534768)	04/15/22	5	0.3	N
WH-SS-03 @ 5' (40.255870 / -104.534790)	04/15/22	5	0.2	N
WH-SS-04 @ 5' (40.255889 / -104.534812)	04/15/22	5	0.3	N
WH-FS-01 @ 6' (40.255889 / -104.534790)	04/15/22	6	0.9	Y
Background-01 @ 3' (40.255778 / -104.534808)	04/15/22	3	0.1	Y
FL-SS-01 @ 3' (40.255840 / -104.530069)	05/23/22	3	1.4	Y
FL-SS-02 @ 3' (40.255783 / -104.533045)	05/23/22	3	1.0	N
FL-SS-03 @ 3' (40.255782 / -104.533741)	05/23/22	3	0.4	N
FL-SS-04 @ 3' (40.255805 / -104.530395)	05/23/22	3	0.3	N
Background-02 @ 2' (40.255891 / -104.530185)	05/23/22	2	1.1	Y
FL-SS-05 @ 3' (40.255809 / -104.530961)	05/24/22	3	0.3	N
FL-SS-06 @ 3' (40.255799 / -104.531500)	05/24/22	3	0.3	N
FL-SS-07 @ 3' (40.255787 / -104.531969)	05/24/22	3	1.6	N
FL-SS-08 @ 3' (40.255777 / -104.532489)	05/24/22	3	1.5	N
FL-SS-09 @ 3' (40.255778 / -104.533425)	05/24/22	3	1.2	N
FL-SS-10 @ 3' (40.255784 / -104.534015)	05/24/22	3	1.4	N
FL-SS-11 @ 3' (40.255801 / -104.534353)	05/24/22	3	1.6	N
FL-SS-12 @ 3' (40.255868 / -104.534757)	05/24/22	3	413.0	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
CODY #D #3-7
CLOSURE ASSESSMENT
40.255890 / -104.534770
SW¼ NE¼ SEC.3 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-19037
REMEDATION # 22154

Sample Location (Latitude / Longitude)		WH-FS-01 @ 6'	Background-01 @ 3'	FL-SS-01 @ 3'	FL-SS-12 @ 3'	Background-02 @ 2'
Sample Date		4/15/2022	4/15/2022	5/23/2022	5/24/2022	5/23/2022
Sample Depth		6'	3'	3'	3'	2'
PID Reading (ppm-v)		0.9	0.1	1.4	413.0	1.1
Regulatory Limits						
Chemical of Concern	Units	COGCC Table 915-1 RSSLs	COGCC Table 915-1 GSSLs	Local Clean-Up Level		
VOCs						
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
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 Aromatics Hydrocarbons						
1-Methyl-naphthalene	mg/kg	18	0.006	--	<0.00067	NA
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.00067	NA
Acenaphthene	mg/kg	360	0.55	--	<0.00067	NA
Anthracene	mg/kg	1800	5.8	--	<0.00067	NA
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.00067	NA
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.00067	NA
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.00067	NA
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.00067	NA
Chrysene	mg/kg	110	9	--	<0.00067	NA
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.00067	NA
Fluoranthene	mg/kg	240	8.9	--	<0.00067	NA
Fluorene	mg/kg	240	0.54	--	<0.00067	NA
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.00067	NA
Naphthalene	mg/kg	2	0.0038	--	<0.00067	NA
Pyrene	mg/kg	180	1.3	--	<0.00067	NA
Soil Suitability (Inorganics)						
Boron	mg/L	2	--	--	2.21	2.46
pH	standard unit	6-8.3	--	--	8.09	8.27
Sodium Adsorption Ratio (SAR)	--	<6	--	--	8.06	9.93
Specific Conductance (EC)	mmhos/cm	<4	--	--	5.47	6.50
Metals						
Arsenic	mg/kg	0.68***	0.29***	2.13***	NA	NA
Barium	mg/kg	15000	82	--	NA	NA
Cadmium	mg/kg	71	0.38	--	NA	NA
Copper	mg/kg	3100	46	--	NA	NA
Lead	mg/kg	400	14	--	NA	NA
Nickel	mg/kg	1500	26	--	NA	NA
Selenium	mg/kg	390	0.26	--	NA	NA
Silver	mg/kg	390	0.8	--	NA	NA
Zinc	mg/kg	23000	370	--	NA	NA
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	NA	NA
COGCC = Colorado Oil and Gas Conservation 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 SAR = Sodium Adsorption Ratio Notes: Values presented in BOLD exceed COGCC Table 915-1 Regulatory Limits. Values presented with asterisk (*) exceed COGCC Table 915-1 GSSLs **Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg. ***Arsenic is naturally occurring in Colorado. The Local Clean-up Level (2.13 mg/kg) is 1.25*Background (1.70 mg/kg).						





ATTACHMENT A

Photo Log

Cody #D #3-7
API # 05-123-19037
Remediation # 22154

Closure Assessment

April - May 2022



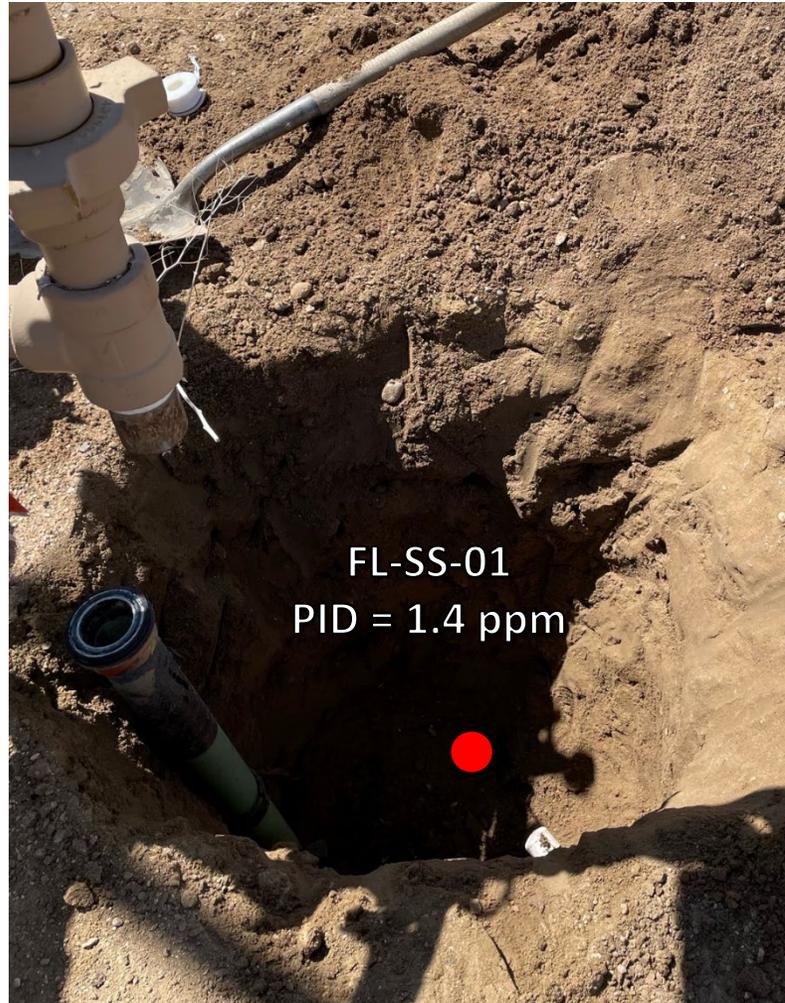
Wellhead Excavation – 04/15/22



Looking east

No petroleum hydrocarbon staining or odor observed

Flowline Removal – 05/23/22



Flowline terminus / Pt B (at separator)

No petroleum hydrocarbon staining or odor observed



Looking southwest at flowline cut point

No petroleum hydrocarbon staining or odor observed

Flowline Removal – 05/23/22



Looking southwest at flowline cut point

No petroleum hydrocarbon staining or odor observed



Looking west at flowline cut point

No petroleum hydrocarbon staining or odor observed

Flowline Removal – 05/24/22



Looking east at flowline cut point

No petroleum hydrocarbon staining or odor observed



Looking east at flowline cut point

No petroleum hydrocarbon staining or odor observed

Flowline Removal – 05/24/22



Looking west at flowline cut point

No petroleum hydrocarbon staining or odor observed



Looking east at flowline cut point

No petroleum hydrocarbon staining or odor observed

Flowline Removal – 05/24/22



Looking east at flowline cut point

No petroleum hydrocarbon staining or odor observed



Looking east at flowline cut point

No petroleum hydrocarbon staining or odor observed

Flowline Removal – 05/24/22



Looking west at flowline cut point

No petroleum hydrocarbon staining or odor observed



Looking east at Pt A (at wellhead)

Slight petroleum hydrocarbon staining and odor observed



ATTACHMENT B

Laboratory Analytical Reports



April 26, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Cody #D #3-7

Project Number - [none]

Attached are your analytical results for Noble - Cody #D #3-7 received by Origins Laboratory, Inc. April 15, 2022. This project is associated with Origins project number Y204339-01.

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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Cody #D #3-7

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y204339-01	Soil	April 15, 2022 9:04	04/15/2022 12:12

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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

Sample Receipt Checklist

Origins Work Order: Y204339 Client: Eagle
 Client Project ID: Cody D 3-7

Checklist Completed by: SG Shipped Via: HD
 Date/time completed: 4/15/22 (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, 2.1 °C _____ °C _____ °C _____ °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 (Project Manager) [Signature]

Date/Time Reviewed 4/18/22

Origins Laboratory, Inc.

[Signature]

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

WH-FS-01@6'

4/15/2022 9:04:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204339-01 (Soil)

Boron (DTPA Sorbitol)

Boron	2.21		0.0994	mg/L	1	B2D1511	04/15/2022	04/18/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D1914	04/19/2022	04/23/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D1605	04/16/2022	04/20/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.6 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

WH-FS-01@6'
4/15/2022 9:04:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204339-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B2D16 05	04/16/2022	04/20/2022	
Surrogate: 4-Bromofluorobenzene	93.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	18.0		0.499	meq/L	10	[CALC]	04/18/2022	04/19/2022	
Magnesium	20.1		0.823	"	"	"	"	"	
Sodium	35.2		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L611478	04/19/2022	04/21/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

WH-FS-01@6'
4/15/2022 9:04:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204339-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L611478	04/19/2022	04/21/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	44.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	58.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	51.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.09			pH Units	1	B2D1805	04/20/2022	04/21/2022	
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SAR by 20B Saturated Paste

SAR	8.06			SAR	1	B2D1801	04/18/2022	04/19/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.47		0.00500	mmhos/cm	1	B2D1807	04/18/2022	04/19/2022	
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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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 B2D1605 - EPA 5030 (soil)

Blank (B2D1605-BLK1)

Prepared: 04/16/2022 Analyzed: 04/20/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.3	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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 B2D1605 - EPA 5030 (soil)

LCS (B2D1605-BS1)

Prepared: 04/16/2022 Analyzed: 04/20/2022

1,2,4-Trimethylbenzene	0.0948	0.00200	mg/kg	0.100		94.8	70-130			
1,3,5-Trimethylbenzene	0.0936	0.00200	"	0.100		93.6	70-130			
Benzene	0.0938	0.00200	"	0.100		93.8	70-130			
Ethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Naphthalene	0.107	0.0100	"	0.100		107	70-130			
Toluene	0.0972	0.00200	"	0.100		97.2	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
m,p-Xylene	0.214	0.00400	"	0.200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		115	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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 B2D1605 - EPA 5030 (soil)

Matrix Spike (B2D1605-MS1)	Source: Y204317-01			Prepared: 04/16/2022 Analyzed: 04/20/2022						
1,2,4-Trimethylbenzene	0.0715	0.00200	mg/kg	0.100	ND	71.5	70-130			
1,3,5-Trimethylbenzene	0.0715	0.00200	"	0.100	ND	71.5	70-130			
Benzene	0.0841	0.00200	"	0.100	ND	84.1	70-130			
Ethylbenzene	0.0756	0.00200	"	0.100	ND	75.6	70-130			
Naphthalene	0.0817	0.0100	"	0.100	ND	81.7	70-130			
Toluene	0.0791	0.00200	"	0.100	ND	79.1	70-130			
o-Xylene	0.0772	0.00200	"	0.100	ND	77.2	70-130			
m,p-Xylene	0.151	0.00400	"	0.200	ND	75.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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 B2D1605 - EPA 5030 (soil)

Matrix Spike Dup (B2D1605-MSD1)	Source: Y204317-01			Prepared: 04/16/2022 Analyzed: 04/20/2022						
1,2,4-Trimethylbenzene	0.0807	0.00200	mg/kg	0.100	ND	80.7	70-130	12.0	20	
1,3,5-Trimethylbenzene	0.0811	0.00200	"	0.100	ND	81.1	70-130	12.6	20	
Benzene	0.0818	0.00200	"	0.100	ND	81.8	70-130	2.82	20	
Ethylbenzene	0.0836	0.00200	"	0.100	ND	83.6	70-130	10.1	20	
Naphthalene	0.0806	0.0100	"	0.100	ND	80.6	70-130	1.36	20	
Toluene	0.0820	0.00200	"	0.100	ND	82.0	70-130	3.67	20	
o-Xylene	0.0842	0.00200	"	0.100	ND	84.2	70-130	8.67	20	
m,p-Xylene	0.167	0.00400	"	0.200	ND	83.5	70-130	10.1	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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
Batch B2D1914 - EPA 3550B										
Blank (B2D1914-BLK1)										
					Prepared: 04/19/2022 Analyzed: 04/22/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		96.5	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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 B2D1914 - EPA 3550B

LCS (B2D1914-BS1)

Prepared: 04/19/2022 Analyzed: 04/22/2022

Diesel (C10-C28)	955	50.0	mg/kg	1000		95.5	70-130			
Residual Range Organics (C28-C40)	987	200	"	1000		98.7	70-130			
Surrogate: o-Terphenyl	50		"	49.8		99.7	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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 B2D1914 - EPA 3550B

Matrix Spike (B2D1914-MS1)	Source: Y204320-01			Prepared: 04/19/2022 Analyzed: 04/22/2022						
Diesel (C10-C28)	930	50.0	mg/kg	1000	ND	93.0	70-130			
Residual Range Organics (C28-C40)	854	200	"	1000	ND	85.4	70-130			
Surrogate: o-Terphenyl	44		"	49.8		87.9	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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 B2D1914 - EPA 3550B										
Matrix Spike Dup (B2D1914-MSD1)		Source: Y204320-01			Prepared: 04/19/2022 Analyzed: 04/22/2022					
Diesel (C10-C28)	956	50.0	mg/kg	1000	ND	95.6	70-130	2.74	35	
Residual Range Organics (C28-C40)	926	200	"	1000	ND	92.6	70-130	8.18	35	
Surrogate: o-Terphenyl	46		"	49.8		92.1	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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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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 B2D1805 - NO PREP

Duplicate (B2D1805-DUP1)

Source: Y204351-02

Prepared: 04/20/2022 Analyzed: 04/21/2022

pH	7.95		pH Units		7.80			1.90	25	
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Batch B2D1807 - NO PREP

Blank (B2D1807-BLK1)

Prepared: 04/18/2022 Analyzed: 04/19/2022

Specific Conductance (EC)	0.000900	0.00500	mmhos/cm							
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Duplicate (B2D1807-DUP1)

Source: Y204339-01

Prepared: 04/18/2022 Analyzed: 04/19/2022

Specific Conductance (EC)	4.84	0.00500	mmhos/cm		5.47			12.1	25	
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Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L611478 - 3550B

MSD (L 97924-MSD-L611478)		Source: 97924			Prepared: 04/19/2022 Analyzed: 04/21/2022					
Benzo(b)fluoranthene	0.0777	0.000585	mg/Kg	0.167	<0.000585	46.5	30-130	0.8	30	
Benzo(k)fluoranthene	0.09	0.000437	"	0.167	<0.000437	53.8	30-130	1.5	30	
Chrysene	0.0993	0.000624	"	0.167	<0.000624	59.4	30-130	3.6	30	
Dibenz(a,h)anthracene	0.103	0.000614	"	0.167	<0.000614	61.6	30-130	1.9	30	
Fluoranthene	0.0962	0.000394	"	0.167	<0.000394	57.6	30-130	3.6	30	
Fluorene	0.0935	0.000286	"	0.167	<0.000286	55.9	30-130	3.3	30	
Pyrene	0.0966	0.000643	"	0.167	<0.000643	57.8	30-130	5.4	30	
Indeno(1,2,3-cd)pyrene	0.0972	0.000627	"	0.167	<0.000627	58.2	30-130	5.7	30	
2-Methylnaphthalene	0.0827	0.000645	"	0.167	<0.000645	49.5	30-130	6.2	30	
Naphthalene	0.0838	0.000484	"	0.167	<0.000484	50.1	30-130	6.3	30	
Benzo(a)pyrene	0.099	0.000468	"	0.167	<0.000468	59.2	30-130	0.8	30	
1-Methylnaphthalene	0.0831	0.000364	"	0.167	<0.000364	49.7	30-130	7.8	30	
Anthracene	0.0921	0.000334	"	0.167	<0.000334	55.1	30-130	3.8	30	
Benzo(a)anthracene	0.0987	0.000493	"	0.167	<0.000493	59.1	30-130	5.2	30	
Acenaphthene	0.0874	0.000304	"	0.167	<0.000304	52.3	30-130	5.9	30	
Surrogate: Nitrobenzene-d5	54.6		"	0.333	188	54.6	29-110			
Surrogate: 2-Fluorobiphenyl	48.3		"	0.333	167	48.3	33-115			
Surrogate: 4-Terphenyl-d14	62.1		"	0.333	213	62.1	33-122			

MS (L 97924-MS-L611478)		Source: 97924			Prepared: 04/19/2022 Analyzed: 04/21/2022					
Chrysene	0.103	0.000624	mg/Kg	0.167	<0.000624	61.6	30-130			
Benzo(b)fluoranthene	0.0784	0.000585	"	0.167	<0.000585	46.9	30-130			
Benzo(a)pyrene	0.0998	0.000468	"	0.167	<0.000468	59.7	30-130			
Benzo(a)anthracene	0.104	0.000493	"	0.167	<0.000493	62.2	30-130			
Anthracene	0.0957	0.000334	"	0.167	<0.000334	57.3	30-130			
Acenaphthene	0.0928	0.000304	"	0.167	<0.000304	55.5	30-130			
Fluoranthene	0.0998	0.000394	"	0.167	<0.000394	59.7	30-130			

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, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L611478 - 3550B

MS (L 97924-MS-L611478)		Source: 97924			Prepared: 04/19/2022 Analyzed: 04/21/2022					
2-Methylnaphthalene	0.088	0.000645	mg/Kg	0.167	<0.000645	52.6	30-130			
Dibenz(a,h)anthracene	0.105	0.000614	"	0.167	<0.000614	62.8	30-130			
1-Methylnaphthalene	0.0899	0.000364	"	0.167	<0.000364	53.8	30-130			
Indeno(1,2,3-cd)pyrene	0.103	0.000627	"	0.167	<0.000627	61.6	30-130			
Naphthalene	0.0893	0.000484	"	0.167	<0.000484	53.4	30-130			
Pyrene	0.102	0.000643	"	0.167	<0.000643	61	30-130			
Fluorene	0.0967	0.000286	"	0.167	<0.000286	57.9	30-130			
Benzo(k)fluoranthene	0.0914	0.000437	"	0.167	<0.000437	54.7	30-130			
Surrogate: 2-Fluorobiphenyl	60.6		"	0.333	167	60.6	33-115			
Surrogate: 4-Terphenyl-d14	77.4		"	0.333	213	77.4	33-122			
Surrogate: Nitrobenzene-d5	68.4		"	0.333	188	68.4	29-110			

LCS (LCS-L611478)		Prepared: 04/19/2022 Analyzed: 04/21/2022								
Anthracene	0.0941	0.000334	mg/Kg	0.167		56.3	30-130			
Pyrene	0.102	0.000643	"	0.167		61	30-130			
Fluoranthene	0.102	0.000394	"	0.167		61	30-130			
Dibenz(a,h)anthracene	0.114	0.000614	"	0.167		68.2	30-130			
Chrysene	0.102	0.000624	"	0.167		61	30-130			
Benzo(k)fluoranthene	0.103	0.000437	"	0.167		61.6	30-130			
Benzo(b)fluoranthene	0.0788	0.000585	"	0.167		47.1	30-130			
Benzo(a)pyrene	0.0975	0.000468	"	0.167		58.3	30-130			
Naphthalene	0.09	0.000484	"	0.167		53.8	30-130			
Benzo(a)anthracene	0.103	0.000493	"	0.167		61.6	30-130			
Acenaphthene	0.0942	0.000304	"	0.167		56.4	30-130			
2-Methylnaphthalene	0.0901	0.000645	"	0.167		53.9	30-130			
1-Methylnaphthalene	0.0903	0.000364	"	0.167		54	30-130			
Fluorene	0.0984	0.000286	"	0.167		58.9	30-130			

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, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L611478 - 3550B

LCS (LCS-L611478)

Prepared: 04/19/2022 Analyzed: 04/21/2022

Indeno(1,2,3-cd)pyrene	0.109	0.000627	mg/Kg	0.167		65.2	30-130			
Surrogate: Nitrobenzene-d5	71.1		"	0.333		71.1	29-110			
Surrogate: 4-Terphenyl-d14	83.1		"	0.333		83.1	33-122			
Surrogate: 2-Fluorobiphenyl	64.2		"	0.333		64.2	33-115			

LRB (LRB-L611478)

Prepared: 04/19/2022 Analyzed: 04/21/2022

Benzo(k)fluoranthene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	58.8		"	0.333		58.8	29-110			
Surrogate: 2-Fluorobiphenyl	54.3		"	0.333		54.3	33-115			
Surrogate: 4-Terphenyl-d14	71.7		"	0.333		71.7	33-122			

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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Cody #D #3-7

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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.



May 09, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Cody #D #3-7

Project Number - [none]

Attached are your analytical results for Noble - Cody #D #3-7 received by Origins Laboratory, Inc. April 27, 2022. This project is associated with Origins project number Y204651-01.

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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Cody #D #3-7

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@3'	Y204651-01	Soil	April 15, 2022 9:08	04/27/2022 15:35

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, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y204651

Client: Eagle

Client Project ID: Cody D 3-7

Checklist Completed by: SG

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

Date/time completed: 4/28/22

Airbill #: N/A

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

Cooler Number/Temperature: 1, 0.4 °C / _____ °C / _____ °C / _____ °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 (Project Manager) DO

Date/Time Reviewed 4/29/22

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, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

Background-01@3'
4/15/2022 9:08:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204651-01 (Soil)

Boron (DTPA Sorbitol)

Boron	2.46	0.101	mg/L	1	B2D2910	KAP	04/29/2022	05/02/2022	
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Metals by Saturated Paste by EPA 6010

Calcium	23.6	0.499	meq/L	10	[CALC]	KAP	04/29/2022	05/02/2022	
Magnesium	16.5	0.823	"	"	"	KAP	"	"	
Sodium	44.5	0.435	"	"	"	KAP	"	"	

SAR by 20B Saturated Paste

SAR	9.93		SAR	1	B2D2913	KAP	"	"	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.50	0.00500	mmhos/cm	1	B2D2916	TSH	04/29/2022	04/30/2022	
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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, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2D2916 - NO PREP										
Blank (B2D2916-BLK1)					Prepared: 04/29/2022 Analyzed: 04/30/2022					
Specific Conductance (EC)	0.00200	0.00500	mmhos/cm							
Duplicate (B2D2916-DUP1)		Source: Y204645-05			Prepared: 04/29/2022 Analyzed: 04/30/2022					
Specific Conductance (EC)	0.828	0.00500	mmhos/cm		0.633			26.7	25	QR-DUP

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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Cody #D #3-7

Notes and Definitions

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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.



May 31, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Cody #D #3-7

Project Number - [none]

Attached are your analytical results for Noble - Cody #D #3-7 received by Origins Laboratory, Inc. May 23, 2022. This project is associated with Origins project number Y205589-01.

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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Cody #D #3-7

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-01@3'	Y205589-01	Soil	May 23, 2022 10:54	05/23/2022 17:00

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, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y205589

Client: Eagle

Client Project ID: Cody D 3-7

Checklist Completed by: SG

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

Date/time completed: 5/24/22

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.7 °C 1 °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.

MP
 Reviewed by (Project Manager)

5/25/22
 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, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

FL-SS-01@3'

5/23/2022 10:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y205589-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B2E2504	05/25/2022	05/26/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E2402	05/24/2022	05/25/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	77.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E2401	05/24/2022	05/24/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			"	"	"	
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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, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

FL-SS-01@3'

5/23/2022 10:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y205589-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.4 %		70-130			B2E24 01	05/24/2022	05/24/2022	
Surrogate: 4-Bromofluorobenzene	98.8 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.27		0.499	meq/L	10	[CALC]	05/25/2022	05/26/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L618305	05/26/2022	05/26/2022	
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"	
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	ND	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	

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, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

FL-SS-01@3'

5/23/2022 10:54:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
 Y205589-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00143	0.00335	mg/Kg	5	L618305	05/26/2022	05/26/2022	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"	
Pyrene	ND	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	54.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	73.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.9 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.27			pH Units	1	B2E2502	05/25/2022	05/26/2022	
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SAR by 20B Saturated Paste

SAR	0.0859			SAR	1	B2E2501	05/25/2022	05/26/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.218		0.00500	mmhos/cm	1	B2E2502	05/25/2022	05/26/2022	
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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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 B2E2401 - EPA 5030 (soil)

Blank (B2E2401-BLK1)

Prepared: 05/24/2022 Analyzed: 05/24/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.5	70-130			

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Eagle Environmental Consulting, Inc.
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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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 B2E2401 - EPA 5030 (soil)

LCS (B2E2401-BS1)

Prepared: 05/24/2022 Analyzed: 05/24/2022

1,2,4-Trimethylbenzene	0.0955	0.00200	mg/kg	0.100		95.5	70-130			
1,3,5-Trimethylbenzene	0.0957	0.00200	"	0.100		95.7	70-130			
Benzene	0.0950	0.00200	"	0.100		95.0	70-130			
Ethylbenzene	0.0982	0.00200	"	0.100		98.2	70-130			
Naphthalene	0.0953	0.0100	"	0.100		95.3	70-130			
Toluene	0.0960	0.00200	"	0.100		96.0	70-130			
o-Xylene	0.0961	0.00200	"	0.100		96.1	70-130			
m,p-Xylene	0.201	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Eagle Environmental Consulting, Inc.
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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 B2E2401 - EPA 5030 (soil)

Matrix Spike (B2E2401-MS1)	Source: Y205558-01			Prepared: 05/24/2022 Analyzed: 05/24/2022						
1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100	ND	107	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130			
Naphthalene	0.104	0.0100	"	0.100	ND	104	70-130			
Toluene	0.104	0.00200	"	0.100	ND	104	70-130			
o-Xylene	0.107	0.00200	"	0.100	ND	107	70-130			
m,p-Xylene	0.224	0.00400	"	0.200	ND	112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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 B2E2401 - EPA 5030 (soil)

Matrix Spike Dup (B2E2401-MSD1)	Source: Y205558-01			Prepared: 05/24/2022 Analyzed: 05/24/2022						
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130	4.73	20	
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	4.24	20	
Benzene	0.0974	0.00200	"	0.100	ND	97.4	70-130	4.02	20	
Ethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130	2.27	20	
Naphthalene	0.101	0.0100	"	0.100	ND	101	70-130	3.67	20	
Toluene	0.0984	0.00200	"	0.100	ND	98.4	70-130	5.90	20	
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130	3.20	20	
m,p-Xylene	0.218	0.00400	"	0.200	ND	109	70-130	2.79	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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
Batch B2E2402 - EPA 3550B										
Blank (B2E2402-BLK1)										
					Prepared: 05/24/2022 Analyzed: 05/25/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		78.7	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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 B2E2402 - EPA 3550B

LCS (B2E2402-BS1)

Prepared: 05/24/2022 Analyzed: 05/25/2022

Diesel (C10-C28)	1030	50.0	mg/kg	1000		103	70-130			
Residual Range Organics (C28-C40)	1120	200	"	1000		112	70-130			
Surrogate: o-Terphenyl	49		"	49.8		99.4	50-150			

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Eagle Environmental Consulting, Inc.
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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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 B2E2402 - EPA 3550B

Matrix Spike (B2E2402-MS1)	Source: Y205558-01			Prepared: 05/24/2022 Analyzed: 05/25/2022						
Diesel (C10-C28)	762	50.0	mg/kg	1000	ND	76.2	70-130			
Residual Range Organics (C28-C40)	839	200	"	1000	ND	83.9	70-130			
Surrogate: o-Terphenyl	43		"	49.8		85.6	50-150			

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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 B2E2402 - EPA 3550B

Matrix Spike Dup (B2E2402-MSD1)	Source: Y205558-01			Prepared: 05/24/2022 Analyzed: 05/25/2022						
Diesel (C10-C28)	893	50.0	mg/kg	1000	ND	89.3	70-130	15.8	35	
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130	20.8	35	
<i>Surrogate: o-Terphenyl</i>	<i>51</i>		<i>"</i>	<i>49.8</i>		<i>102</i>	<i>50-150</i>			

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Eagle Environmental Consulting, Inc.
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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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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 B2E2502 - NO PREP

Blank (B2E2502-BLK1)

Prepared: 05/25/2022 Analyzed: 05/26/2022

Specific Conductance (EC)	0.00130	0.0300	mmhos/cm
pH	0.00		pH Units

Duplicate (B2E2502-DUP1)

Source: Y205578-14

Prepared: 05/25/2022 Analyzed: 05/26/2022

pH	7.73		pH Units	7.72		0.129	25
Specific Conductance (EC)	0.245	0.0300	mmhos/cm	0.244		0.491	25

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L618305 - 3550B

MSD (L 96358-MSD-L618305)		Source: 96358			Prepared: 05/26/2022 Analyzed: 05/26/2022					
1-Methylnaphthalene	0.0867	0.000364	mg/Kg	0.167	<0.000364	51.9	30-130	1.5	30	
Benzo(a)anthracene	0.105	0.000493	"	0.167	<0.000493	62.8	30-130	2.8	30	
Anthracene	0.112	0.000334	"	0.167	<0.000334	67	30-130	1.8	30	
Acenaphthene	0.104	0.000304	"	0.167	<0.000304	62.2	30-130	1.9	30	
Chrysene	0.0968	0.000624	"	0.167	<0.000624	57.9	30-130	1.8	30	
2-Methylnaphthalene	0.0863	0.000645	"	0.167	<0.000645	51.6	30-130	0.6	30	
Pyrene	0.118	0.000643	"	0.167	<0.000643	70.6	30-130	1.6	30	
Benzo(b)fluoranthene	0.111	0.000585	"	0.167	<0.000585	66.4	30-130	4.6	30	
Naphthalene	0.0849	0.000484	"	0.167	<0.000484	50.8	30-130	0.5	30	
Indeno(1,2,3-cd)pyrene	0.167	0.000627	"	0.167	<0.000627	100	30-130	16.8	30	
Fluorene	0.1	0.000286	"	0.167	<0.000286	59.8	30-130	1.1	30	
Fluoranthene	0.121	0.000394	"	0.167	<0.000394	72.4	30-130	1.6	30	
Dibenz(a,h)anthracene	0.15	0.000614	"	0.167	<0.000614	89.8	30-130	12.7	30	
Benzo(k)fluoranthene	0.0974	0.000437	"	0.167	<0.000437	58.3	30-130	1.1	30	
Benzo(a)pyrene	0.105	0.000468	"	0.167	<0.000468	62.8	30-130	0.9	30	
Surrogate: 4-Terphenyl-d14	78.6		"	0.333	250	78.6	33-122			
Surrogate: 2-Fluorobiphenyl	51.9		"	0.333	183	51.9	33-115			
Surrogate: Nitrobenzene-d5	49.2		"	0.333	167	49.2	29-110			

MS (L 96358-MS-L618305)		Source: 96358			Prepared: 05/26/2022 Analyzed: 05/26/2022					
Benzo(b)fluoranthene	0.106	0.000585	mg/Kg	0.164	<0.000585	64.6	30-130			
Dibenz(a,h)anthracene	0.132	0.000614	"	0.164	<0.000614	80.4	30-130			
Pyrene	0.12	0.000643	"	0.164	<0.000643	73.1	30-130			
Naphthalene	0.0844	0.000484	"	0.164	<0.000484	51.4	30-130			
Indeno(1,2,3-cd)pyrene	0.141	0.000627	"	0.164	<0.000627	85.9	30-130			
Fluorene	0.0989	0.000286	"	0.164	<0.000286	60.3	30-130			
Fluoranthene	0.123	0.000394	"	0.164	<0.000394	75	30-130			

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L618305 - 3550B

MS (L 96358-MS-L618305)		Source: 96358			Prepared: 05/26/2022 Analyzed: 05/26/2022					
2-Methylnaphthalene	0.0857	0.000645	mg/Kg	0.164	<0.000645	52.2	30-130			
Benzo(a)pyrene	0.104	0.000468	"	0.164	<0.000468	63.4	30-130			
Benzo(a)anthracene	0.108	0.000493	"	0.164	<0.000493	65.8	30-130			
Anthracene	0.11	0.000334	"	0.164	<0.000334	67	30-130			
Acenaphthene	0.102	0.000304	"	0.164	<0.000304	62.1	30-130			
Benzo(k)fluoranthene	0.0985	0.000437	"	0.164	<0.000437	60	30-130			
1-Methylnaphthalene	0.0854	0.000364	"	0.164	<0.000364	52	30-130			
Chrysene	0.0986	0.000624	"	0.164	<0.000624	60.1	30-130			
Surrogate: Nitrobenzene-d5	49.2		"	0.329	167	49.2	29-110			
Surrogate: 4-Terphenyl-d14	80.2		"	0.329	250	80.2	33-122			
Surrogate: 2-Fluorobiphenyl	52.5		"	0.329	183	52.5	33-115			

LCS (LCS-L618305)		Prepared: 05/26/2022 Analyzed: 05/26/2022								
Dibenz(a,h)anthracene	0.116	0.000614	mg/Kg	0.167		69.4	30-130			
Fluoranthene	0.115	0.000394	"	0.167		68.8	30-130			
Fluorene	0.0974	0.000286	"	0.167		58.3	30-130			
Indeno(1,2,3-cd)pyrene	0.127	0.000627	"	0.167		76	30-130			
Naphthalene	0.083	0.000484	"	0.167		49.7	30-130			
Pyrene	0.11	0.000643	"	0.167		65.8	30-130			
Acenaphthene	0.101	0.000304	"	0.167		60.4	30-130			
Chrysene	0.0904	0.000624	"	0.167		54.1	30-130			
Benzo(b)fluoranthene	0.102	0.000585	"	0.167		61	30-130			
Benzo(a)pyrene	0.0974	0.000468	"	0.167		58.3	30-130			
Anthracene	0.108	0.000334	"	0.167		64.6	30-130			
2-Methylnaphthalene	0.0855	0.000645	"	0.167		51.1	30-130			
1-Methylnaphthalene	0.0847	0.000364	"	0.167		50.7	30-130			
Benzo(a)anthracene	0.1	0.000493	"	0.167		59.8	30-130			

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L618305 - 3550B

LCS (LCS-L618305)

Prepared: 05/26/2022 Analyzed: 05/26/2022

Benzo(k)fluoranthene	0.0858	0.000437	mg/Kg	0.167		51.3	30-130			
Surrogate: Nitrobenzene-d5	52.5		"	0.333		52.5	29-110			
Surrogate: 4-Terphenyl-d14	79.2		"	0.333		79.2	33-122			
Surrogate: 2-Fluorobiphenyl	60.6		"	0.333		60.6	33-115			

LRB (LRB-L618305)

Prepared: 05/26/2022 Analyzed: 05/26/2022

Pyrene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	48.6		"	0.333		48.6	29-110			
Surrogate: 4-Terphenyl-d14	77.1		"	0.333		77.1	33-122			
Surrogate: 2-Fluorobiphenyl	56.4		"	0.333		56.4	33-115			

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Cody #D #3-7

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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June 14, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Cody #D #3-7

Project Number - [none]

Attached are your analytical results for Noble - Cody #D #3-7 received by Origins Laboratory, Inc. May 24, 2022. This project is associated with Origins project number Y205620-01.

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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Cody #D #3-7

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-12@3'	Y205620-01	Soil	May 24, 2022 10:22	05/24/2022 15:55

Chain of Custody Modification Request

On 6/3/2022, Grace Congdon from Eagle Environmental contacted Jordan Bynon via email regarding Y205620 requesting that Table 915 Metals be added to FL-SS-12@3'.

Requested modifications to the chain of custody were made by Jordan Bynon on 6/3/2022.

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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page 1 of 1



905620

Client: Eagle Env Consulting
 Address: 8000 W 44th Ave
 Wheat Ridge, CO 80033
 Telephone Number: 303-433-6479
 Email Address: info@originslab.com

Project Manager: Martin Eckert III
 Project Name: Cody #D #3-7
 Project Number:
 Samples Collected By: RH

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis	Sample Instructions	Turnaround Time
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil			
FL-55-12-031	5/24/22	1022	2	X				X		X	ES Sept - extracted most prep	24 Hr <input type="checkbox"/>
										X	MISSING	48 Hr <input type="checkbox"/>
												72 Hr <input type="checkbox"/>
												Standard <input checked="" type="checkbox"/>

Relinquished By: [Signature]
 Date: 5/24/22
 Time: 1555

Received By: [Signature]
 Date: 5/24/22
 Time: 1555

Temp Received: 1.7
 Date Results Needed: [Signature]
 1725 Elk Place
 Denver, CO 80211
 Phone: 303.433.1322

Origins Laboratory, Inc.

[Signature]

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4205620

Client: Eagle

Client Project ID: Cody D 3-7

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 5/25/22

Airbill #: N/A

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

Cooler Number/Temperature: 1, 1.7 °C °C °C °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (~ ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: JG (Project Manager)

Date/Time Reviewed: 5-26-22

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

FL-SS-12@3'

5/24/2022 10:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205620-01 (Soil)

Boron (DTPA Sorbitol)

Boron	1.18		0.100	mg/L	1	B2E2517	05/25/2022	05/26/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	184		25.0	mg/kg	1	B2E2507	05/25/2022	05/26/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.324		0.00200	mg/kg	1	B2E2511	05/25/2022	05/26/2022	
1,3,5-Trimethylbenzene	0.164		0.00200	"	"	"	"	"	
Benzene	0.216		0.00200	"	"	"	"	"	
Ethylbenzene	0.140		0.00200	"	"	"	"	"	
Toluene	0.590		0.0500	"	25	"	"	05/26/2022	
Xylenes, total	3.58		0.00200	"	1	"	"	05/26/2022	
Gasoline Range Hydrocarbons	26.5		5.00	"	25	"	"	05/26/2022	

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			"	"	05/26/2022	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

FL-SS-12@3'

5/24/2022 10:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205620-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	4.29		0.499	meq/L	10	[CALC]	05/25/2022	05/26/2022	
Magnesium	3.96		0.823	"	"	"	"	"	
Sodium	6.24		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.693	0.00364	0.0067	mg/Kg	10	L618759	05/31/2022	05/31/2022	
2-Methylnaphthalene	1.47	0.00645	0.0067	"	"	"	"	"	
Acenaphthene	0.0783	0.000304	0.00067	"	1	"	"	"	
Anthracene	0.00152	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.0146	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.000712	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.0151	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000863	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.111	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	0.309	0.000484	0.00067	"	"	"	"	"	
Pyrene	0.0106	0.000643	0.00067	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	56.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	104 %		33-122			"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

FL-SS-12@3'

5/24/2022 10:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205620-01 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	54.1 %		29-110			L6187 59	05/31/2022	05/31/2022	
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pH in Soil by 9045D

pH	8.31			pH Units	1	B2E2518	05/25/2022	05/26/2022	
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SAR by 20B Saturated Paste

SAR	3.07			SAR	1	B2E2516	05/25/2022	05/26/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.76		0.00500	mmhos/cm	1	B2E2518	05/25/2022	05/26/2022	
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Total Metals by 6020B

Arsenic	2.01	0.0855	0.25	mg/Kg	5	L620930	06/10/2022	06/13/2022	
Barium	123	0.042	0.25	"	"	"	"	"	
Cadmium	0.222	0.0259	0.25	"	"	"	"	"	J
Copper	14.2	0.0806	0.25	"	"	"	"	"	
Lead	15.7	0.031	0.25	"	"	"	"	"	
Nickel	10.9	0.0633	0.25	"	"	"	"	"	
Selenium	0.304	0.103	0.25	"	"	"	"	"	
Silver	0.0442	0.0067	0.25	"	"	"	"	"	J
Zinc	57.4	0.534	2.5	"	"	"	"	"	

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Cody #D #3-7

FL-SS-12@3'

5/24/2022 10:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y205620-01 (Soil)

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L620960	05/24/2022	06/10/2022	
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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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 B2E2507 - EPA 3550B										
Blank (B2E2507-BLK1)										
					Prepared: 05/25/2022 Analyzed: 05/26/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		92.6	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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 B2E2507 - EPA 3550B

LCS (B2E2507-BS1)

Prepared: 05/25/2022 Analyzed: 05/26/2022

Diesel (C10-C28)	1150	50.0	mg/kg	1000		115	70-130			
Residual Range Organics (C28-C40)	1100	200	"	1000		110	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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 B2E2507 - EPA 3550B

Matrix Spike (B2E2507-MS1)	Source: Y205601-01			Prepared: 05/25/2022 Analyzed: 05/26/2022						
Diesel (C10-C28)	1060	50.0	mg/kg	1000	ND	106	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	70-130			
Surrogate: o-Terphenyl	59		"	49.8		118	50-150			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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 B2E2507 - EPA 3550B

Matrix Spike Dup (B2E2507-MSD1)	Source: Y205601-01			Prepared: 05/25/2022 Analyzed: 05/26/2022						
Diesel (C10-C28)	1160	50.0	mg/kg	1000	ND	116	70-130	9.35	35	
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130	6.05	35	
Surrogate: o-Terphenyl	56		"	49.8		113	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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 B2E2511 - EPA 5030 (soil)

Blank (B2E2511-BLK1)

Prepared: 05/25/2022 Analyzed: 05/25/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.4	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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 B2E2511 - EPA 5030 (soil)

LCS (B2E2511-BS1)

Prepared: 05/25/2022 Analyzed: 05/25/2022

1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Benzene	0.0969	0.00200	"	0.100		96.9	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Naphthalene	0.110	0.0100	"	0.100		110	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
m,p-Xylene	0.218	0.00400	"	0.200		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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 B2E2511 - EPA 5030 (soil)

Matrix Spike (B2E2511-MS1)	Source: Y205601-01			Prepared: 05/25/2022 Analyzed: 05/25/2022						
1,2,4-Trimethylbenzene	0.0769	0.00200	mg/kg	0.100	ND	76.9	70-130			
1,3,5-Trimethylbenzene	0.0759	0.00200	"	0.100	ND	75.9	70-130			
Benzene	0.0812	0.00200	"	0.100	ND	81.2	70-130			
Ethylbenzene	0.0853	0.00200	"	0.100	ND	85.3	70-130			
Naphthalene	0.0826	0.0100	"	0.100	ND	82.6	70-130			
Toluene	0.0807	0.00200	"	0.100	ND	80.7	70-130			
o-Xylene	0.0841	0.00200	"	0.100	ND	84.1	70-130			
m,p-Xylene	0.167	0.00400	"	0.200	ND	83.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B2E2511 - EPA 5030 (soil)

Matrix Spike Dup (B2E2511-MSD1)	Source: Y205601-01			Prepared: 05/25/2022 Analyzed: 05/25/2022						
1,2,4-Trimethylbenzene	0.0597	0.00200	mg/kg	0.100	ND	59.7	70-130	25.2	20	QM-07
1,3,5-Trimethylbenzene	0.0576	0.00200	"	0.100	ND	57.6	70-130	27.4	20	QM-07
Benzene	0.0815	0.00200	"	0.100	ND	81.5	70-130	0.418	20	
Ethylbenzene	0.0753	0.00200	"	0.100	ND	75.3	70-130	12.4	20	
Naphthalene	0.0634	0.0100	"	0.100	ND	63.4	70-130	26.3	20	QM-07
Toluene	0.0802	0.00200	"	0.100	ND	80.2	70-130	0.696	20	
o-Xylene	0.0741	0.00200	"	0.100	ND	74.1	70-130	12.7	20	
m,p-Xylene	0.147	0.00400	"	0.200	ND	73.5	70-130	12.9	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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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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 B2E2518 - NO PREP

Blank (B2E2518-BLK1)

Prepared: 05/25/2022 Analyzed: 05/26/2022

Specific Conductance (EC)	0.00100	0.00500	mmhos/cm
pH	0.00		pH Units

Duplicate (B2E2518-DUP1)

Source: Y205617-20

Prepared: 05/25/2022 Analyzed: 05/26/2022

Specific Conductance (EC)	0.688	0.00500	mmhos/cm	0.625	9.51	25
pH	8.27		pH Units	8.28	0.121	25

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, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

Total Metals by 6020B - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L620930 - 3050B

MSD (L 91004-MSD-L620930)		Source: 91004			Prepared: 06/10/2022 Analyzed: 06/13/2022					
Nickel	5.99	0.0633	mg/Kg	2.43	2.83	130	75-125	3.2	80	*
Zinc	50.4	0.534	"	24.3	58.4	NR	75-125	10.4	80	*
Cadmium	0.561	0.0259	"	0.487	0.0541	104	75-125	7.9	80	
Lead	5.34	0.031	"	2.43	3.5	76	75-125	7.3	80	
Copper	6.55	0.0806	"	2.43	3.75	115	75-125	3.2	80	
Arsenic	4.52	0.0855	"	2.43	1.1	140	75-125	24.8	80	*
Barium	111	0.042	"	4.87	145	NR	75-125	1.7	80	*
Silver	0.491	0.0067	"	0.487	0.00777	99	75-125	5.6	80	
Selenium	4.12	0.103	"	4.87	0.162	81	75-125	12.6	80	

MS (L 91004-MS-L620930)		Source: 91004			Prepared: 06/10/2022 Analyzed: 06/13/2022					
Zinc	45.4	0.534	mg/Kg	23.5	58.4	NR	75-125			*
Silver	0.464	0.0067	"	0.469	0.00777	97	75-125			
Selenium	3.63	0.103	"	4.69	0.162	74	75-125			*
Nickel	5.8	0.0633	"	2.35	2.83	127	75-125			*
Lead	5.75	0.031	"	2.35	3.5	96	75-125			
Copper	6.34	0.0806	"	2.35	3.75	110	75-125			
Cadmium	0.518	0.0259	"	0.469	0.0541	99	75-125			
Barium	113	0.042	"	4.69	145	NR	75-125			*
Arsenic	3.52	0.0855	"	2.35	1.1	103	75-125			

LCS (LCS-L620930)		Prepared: 06/10/2022 Analyzed: 06/13/2022								
Barium	4.96	0.042	mg/Kg	5		99	80-120			
Cadmium	0.5	0.0259	"	0.5		100	80-120			
Copper	2.38	0.0806	"	2.5		95	80-120			
Lead	2.45	0.031	"	2.5		98	80-120			
Nickel	2.45	0.0633	"	2.5		98	80-120			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

Total Metals by 6020B - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L620930 - 3050B

LCS (LCS-L620930)

Prepared: 06/10/2022 Analyzed: 06/13/2022

Silver	0.507	0.0067	mg/Kg	0.5		101	80-120			
Zinc	23.5	0.534	"	25		94	80-120			
Arsenic	2.45	0.0855	"	2.5		98	80-120			
Selenium	5.17	0.103	"	5		103	80-120			

LRB (LRB-L620930)

Prepared: 06/10/2022 Analyzed: 06/13/2022

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

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L620960 -										
DUP (L 92431-DUP)		Source: 92431			Prepared: Analyzed: 06/10/2022					
Chromium, Hexavalent	ND	0.251	mg/Kg		92431		-	0	20	
MS (L 92431-MS)		Source: 92431			Prepared: Analyzed: 06/10/2022					
Chromium, Hexavalent	6.3	0.247	mg/Kg	8.12	92431	78	75-125			
LCS (LCS)		Prepared: Analyzed: 06/10/2022								
Chromium, Hexavalent	7.61	0.244	mg/Kg	8		95	75-125			
LRB (LRB)		Prepared: Analyzed: 06/10/2022								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L618759 - 3550B

MSD (L 98233-MSD-L618759)	Source: 98233		Prepared: 05/31/2022 Analyzed: 05/31/2022							
Chrysene	0.112	0.000624	mg/Kg	0.163	<0.000624	68.7	30-130	4.3	30	
Anthracene	0.126	0.000334	"	0.163	<0.000334	77.3	30-130	5.4	30	
Naphthalene	0.092	0.000484	"	0.163	<0.000484	56.4	30-130	7.1	30	
Indeno(1,2,3-cd)pyrene	0.114	0.000627	"	0.163	<0.000627	69.9	30-130	34.7	30	
Fluorene	0.112	0.000286	"	0.163	<0.000286	68.7	30-130	6	30	
Fluoranthene	0.142	0.000394	"	0.163	<0.000394	87.1	30-130	0	30	
Dibenz(a,h)anthracene	0.107	0.000614	"	0.163	<0.000614	65.6	30-130	30.1	30	
Pyrene	0.143	0.000643	"	0.163	<0.000643	87.7	30-130	0.7	30	
2-Methylnaphthalene	0.0937	0.000645	"	0.163	<0.000645	57.4	30-130	9.4	30	
1-Methylnaphthalene	0.0943	0.000364	"	0.163	<0.000364	57.8	30-130	8.8	30	
Benzo(a)pyrene	0.119	0.000468	"	0.163	<0.000468	73	30-130	4.1	30	
Benzo(k)fluoranthene	0.104	0.000437	"	0.163	<0.000437	63.8	30-130	4.6	30	
Acenaphthene	0.113	0.000304	"	0.163	<0.000304	69.3	30-130	10	30	
Benzo(a)anthracene	0.116	0.000493	"	0.163	<0.000493	71.1	30-130	5.8	30	
Benzo(b)fluoranthene	0.102	0.000585	"	0.163	<0.000585	62.5	30-130	14.5	30	
Surrogate: Nitrobenzene-d5	55		"	0.327	202	55	29-110			
Surrogate: 2-Fluorobiphenyl	61.4		"	0.327	232	61.4	33-115			
Surrogate: 4-Terphenyl-d14	95.1		"	0.327	331	95.1	33-122			

MS (L 98233-MS-L618759)	Source: 98233		Prepared: 05/31/2022 Analyzed: 05/31/2022							
Chrysene	0.117	0.000624	mg/Kg	0.166	<0.000624	70.4	30-130			
Benzo(k)fluoranthene	0.109	0.000437	"	0.166	<0.000437	65.6	30-130			
Naphthalene	0.0988	0.000484	"	0.166	<0.000484	59.5	30-130			
Indeno(1,2,3-cd)pyrene	0.162	0.000627	"	0.166	<0.000627	97.5	30-130			
Fluorene	0.119	0.000286	"	0.166	<0.000286	71.6	30-130			
Dibenz(a,h)anthracene	0.145	0.000614	"	0.166	<0.000614	87.3	30-130			
Pyrene	0.142	0.000643	"	0.166	<0.000643	85.5	30-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L618759 - 3550B

MS (L 98233-MS-L618759)	Source: 98233		Prepared: 05/31/2022 Analyzed: 05/31/2022							
Benzo(b)fluoranthene	0.118	0.000585	mg/Kg	0.166	<0.000585	71	30-130			
Fluoranthene	0.142	0.000394	"	0.166	<0.000394	85.5	30-130			
1-Methylnaphthalene	0.103	0.000364	"	0.166	<0.000364	62	30-130			
2-Methylnaphthalene	0.103	0.000645	"	0.166	<0.000645	62	30-130			
Acenaphthene	0.125	0.000304	"	0.166	<0.000304	75.3	30-130			
Anthracene	0.133	0.000334	"	0.166	<0.000334	80.1	30-130			
Benzo(a)anthracene	0.123	0.000493	"	0.166	<0.000493	74	30-130			
Benzo(a)pyrene	0.124	0.000468	"	0.166	<0.000468	74.6	30-130			
Surrogate: Nitrobenzene-d5	60.7		"	0.331	202	60.7	29-110			
Surrogate: 2-Fluorobiphenyl	70.9		"	0.331	232	70.9	33-115			
Surrogate: 4-Terphenyl-d14	101		"	0.331	331	101	33-122			

LCS (LCS-L618759)	Prepared: 05/31/2022 Analyzed: 05/31/2022									
Fluoranthene	0.143	0.000394	mg/Kg	0.167		85.6	30-130			
Benzo(k)fluoranthene	0.101	0.000437	"	0.167		60.4	30-130			
Naphthalene	0.0942	0.000484	"	0.167		56.4	30-130			
Pyrene	0.142	0.000643	"	0.167		85	30-130			
Fluorene	0.116	0.000286	"	0.167		69.4	30-130			
Dibenz(a,h)anthracene	0.104	0.000614	"	0.167		62.2	30-130			
Chrysene	0.115	0.000624	"	0.167		68.8	30-130			
1-Methylnaphthalene	0.0975	0.000364	"	0.167		58.3	30-130			
Benzo(a)pyrene	0.122	0.000468	"	0.167		73	30-130			
Benzo(a)anthracene	0.12	0.000493	"	0.167		71.8	30-130			
Anthracene	0.132	0.000334	"	0.167		79	30-130			
Acenaphthene	0.119	0.000304	"	0.167		71.2	30-130			
2-Methylnaphthalene	0.0971	0.000645	"	0.167		58.1	30-130			
Indeno(1,2,3-cd)pyrene	0.111	0.000627	"	0.167		66.4	30-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L618759 - 3550B

LCS (LCS-L618759)

Prepared: 05/31/2022 Analyzed: 05/31/2022

Benzo(b)fluoranthene	0.112	0.000585	mg/Kg	0.167		67	30-130			
Surrogate: Nitrobenzene-d5	65.1		"	0.333		65.1	29-110			
Surrogate: 4-Terphenyl-d14	118		"	0.333		118	33-122			
Surrogate: 2-Fluorobiphenyl	80.1		"	0.333		80.1	33-115			

LRB (LRB-L618759)

Prepared: 05/31/2022 Analyzed: 05/31/2022

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	60.3		"	0.333		60.3	29-110			
Surrogate: 4-Terphenyl-d14	91.5		"	0.333		91.5	33-122			
Surrogate: 2-Fluorobiphenyl	68.4		"	0.333		68.4	33-115			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Cody #D #3-7

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Estimated Value. Analyte below reported quantitation limit.

* 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.

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.



June 14, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Cody #D #3-7

Project Number - [none]

Attached are your analytical results for Noble - Cody #D #3-7 received by Origins Laboratory, Inc. June 07, 2022. This project is associated with Origins project number Y206181-01.

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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Cody #D #3-7

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-02@2'	Y206181-01	Soil	May 24, 2022 11:06	06/07/2022 16:10

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, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y2011561

Client: EOGHC

Client Project ID: Cody D 3-7

Checklist Completed by: KH

Shipped Via: HD

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

Date/time completed: 6/18/22

Airbill #: N/A

Matrix(s) Received: (Check all that apply): 1 Soil/Solid Water Other:

Cooler Number/Temperature: 1 / 1.6 °C / °C / °C (Describe)

Thermometer ID: TSC4

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<u> </u>	<u> </u>	<u> </u>	
Is there ice present (document if blue ice is used)	<u> </u>	<u> </u>	<u> </u>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<u> </u>	<u> </u>	<u> </u>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<u> </u>	<u> </u>	<u> </u>	
Were all samples received intact ⁽¹⁾ ?	<u> </u>	<u> </u>	<u> </u>	
Was adequate sample volume provided ⁽¹⁾ ?	<u> </u>	<u> </u>	<u> </u>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<u> </u>	<u> </u>	<u> </u>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<u> </u>	<u> </u>	<u> </u>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u> </u>	<u> </u>	<u> </u>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u> </u>	<u> </u>	<u> </u>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<u> </u>	<u> </u>	<u> </u>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<u> </u>	<u> </u>	<u> </u>	
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)	<u> </u>	<u> </u>	<u> </u>	
Additional Comments (if any):	<u> </u>			

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager)

Date/Time Reviewed 6/19/22

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, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

Background-02@2'
5/24/2022 11:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206181-01 (Soil)

pH in Soil by 9045D

pH	9.36			pH Units	1	B2F1304	06/13/2022	06/14/2022	
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Table 915 metals by EPA 6020B

Arsenic	1.70		0.100	mg/kg	1	B2F0821	06/08/2022	06/09/2022	
Barium	46.5		10.0	"	"	"	"	"	
Cadmium	ND		0.100	"	"	"	"	"	U
Copper	ND		10.0	"	"	"	"	"	U
Lead	4.53		1.00	"	"	"	"	"	
Nickel	3.92		1.00	"	"	"	"	"	
Selenium	0.127		0.100	"	"	"	"	"	
Silver	ND		0.100	"	"	"	"	"	U
Zinc	15.6		10.0	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.503	mg/Kg	1	L620960	05/24/2022	06/10/2022	
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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, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

Metals by SM 3500 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 B2F0821 - Default Prep Metals

Blank (B2F0821-BLK1)

Prepared: 06/08/2022 Analyzed: 06/09/2022

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

LCS (B2F0821-BS1)

Prepared: 06/08/2022 Analyzed: 06/09/2022

Arsenic	0.0499	0.100	mg/kg	0.0500		99.9	80-120			U
Barium	4.55	10.0	"	5.00		91.0	80-120			U
Cadmium	0.0534	0.100	"	0.0500		107	80-120			U
Copper	0.514	10.0	"	0.500		103	80-120			U
Lead	0.0500	1.00	"	0.0500		100	80-120			U
Nickel	0.0513	1.00	"	0.0500		103	80-120			U
Selenium	0.0487	0.100	"	0.0500		97.5	80-120			U
Silver	0.0517	0.100	"	0.0500		103	80-120			U
Zinc	0.489	10.0	"	0.500		97.8	80-120			U

Matrix Spike (B2F0821-MS1)

Source: Y206181-01

Prepared: 06/08/2022 Analyzed: 06/09/2022

Arsenic	8.38	0.100	mg/kg	10.0	1.70	66.7	75-125			QM-07
Barium	973	10.0	"	1000	46.5	92.4	75-125			
Cadmium	7.38	0.100	"	10.0	0.0521	73.0	75-125			QM-07
Copper	73.9	10.0	"	100	3.46	70.2	75-125			QM-07
Lead	15.1	1.00	"	10.0	4.53	105	75-125			

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

Metals by SM 3500 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 B2F0821 - Default Prep Metals

Matrix Spike (B2F0821-MS1)		Source: Y206181-01			Prepared: 06/08/2022 Analyzed: 06/09/2022					
Nickel	10.7	1.00	mg/kg	10.0	3.92	67.6	75-125			QM-07
Selenium	7.13	0.100	"	10.0	0.127	69.8	75-125			QM-07
Silver	10.4	0.100	"	10.0	0.0287	104	75-125			
Zinc	83.1	10.0	"	100	15.6	67.2	75-125			QM-07
Matrix Spike Dup (B2F0821-MSD1)		Source: Y206181-01			Prepared: 06/08/2022 Analyzed: 06/09/2022					
Arsenic	7.22	0.100	mg/kg	8.81	1.70	62.7	75-125	15.0	20	QM-07
Barium	848	10.0	"	881	46.5	91.0	75-125	13.7	20	
Cadmium	6.13	0.100	"	8.81	0.0521	69.0	75-125	18.5	20	QM-07
Copper	62.1	10.0	"	88.1	3.46	66.6	75-125	17.4	20	QM-07
Lead	13.5	1.00	"	8.81	4.53	102	75-125	11.2	20	
Nickel	9.28	1.00	"	8.81	3.92	60.9	75-125	14.2	20	QM-07
Selenium	5.93	0.100	"	8.81	0.127	65.8	75-125	18.5	20	QM-07
Silver	9.07	0.100	"	8.81	0.0287	103	75-125	14.0	20	
Zinc	70.8	10.0	"	88.1	15.6	62.6	75-125	16.0	20	QM-07

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Eagle Environmental Consulting, Inc.
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2F1304 - NO PREP										
Blank (B2F1304-BLK1)					Prepared: 06/13/2022 Analyzed: 06/14/2022					
pH	0.00		pH Units							
Duplicate (B2F1304-DUP1)					Source: Y206197-02 Prepared: 06/13/2022 Analyzed: 06/14/2022					
pH	8.15		pH Units		8.11			0.492	25	

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Cody #D #3-7

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L620960 -										
DUP (L 92431-DUP)		Source: Y206181-01			Prepared: Analyzed: 06/10/2022					
Chromium, Hexavalent	ND	0.251	mg/Kg		<0.516		-	0	20	
MS (L 92431-MS)		Source: Y206181-01			Prepared: Analyzed: 06/10/2022					
Chromium, Hexavalent	6.3	0.247	mg/Kg	8.12	<0.247	78	75-125			
LCS (LCS)		Prepared: Analyzed: 06/10/2022								
Chromium, Hexavalent	7.61	0.244	mg/Kg	8		95	75-125			
LRB (LRB)		Prepared: Analyzed: 06/10/2022								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Cody #D #3-7

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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