

Wellhead Closure Checklist

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

Additional attachments (optional): <u> </u>	Pit Closure <u> </u>	Tank Battery Closure <u> </u>	Flowline Closure <u> </u>	Partially Buried Vault Closure <u> </u>	
Site Name & COGCC Facility Number: <u>Bies #3-19</u>	Date: <u>11/01/22</u>	Remediation Project #: <u>24968</u>			
Associated Wells: <u>05-123-20957</u>	Age of Site: <u>Years</u>	Number of Photos Attached: <u>1</u>			
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) <u>40.128061 / -104.597125</u>		Estimated Facility Size (acres): <u> </u>			
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) <u>Good</u>					
USCS Soil Type: <u>SW</u>	Estimated Depth to Groundwater: <u>720'</u>				
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <u>None observed</u>					
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <u>None observed</u>					
Wellhead(s)					
Well API	<u>05-123-20957</u>				
Age	<u>Years</u>				
Condition of surface around wellhead	<u>Good per crew</u>				
PID Readings	<u>N/A - Excavated upon arrival</u>				
Condition of subsurface (excluding relevant PID Readings)	<u>Good</u>				
PID Readings	<u>2.1</u>	<u>1.6</u>	<u>1.4</u>	<u>1.7</u>	<u>4.3</u>
Sample taken? Location/Sample ID#	<u>WH-SS-01</u>	<u>WH-SS-02</u>	<u>WH-SS-03</u>	<u>WH-SS-04</u>	<u>WH-FS-01</u>
Photo Number(s)	<u>See photo log</u>				
Other observations regarding wellheads: <u>Well casing cut/capped following assessment</u>					
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: <u>5</u>			Total number of samples collected: <u>5</u>		
Highest PID Reading: <u>4.3</u>			Total number of samples submitted to lab for analysis: <u>1</u>		
If more than 10 cubic yards of impacted soil were observed:					
Vertical extent:			Estimated spill volume:		
Lateral extent: <u>N/A</u>			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:					



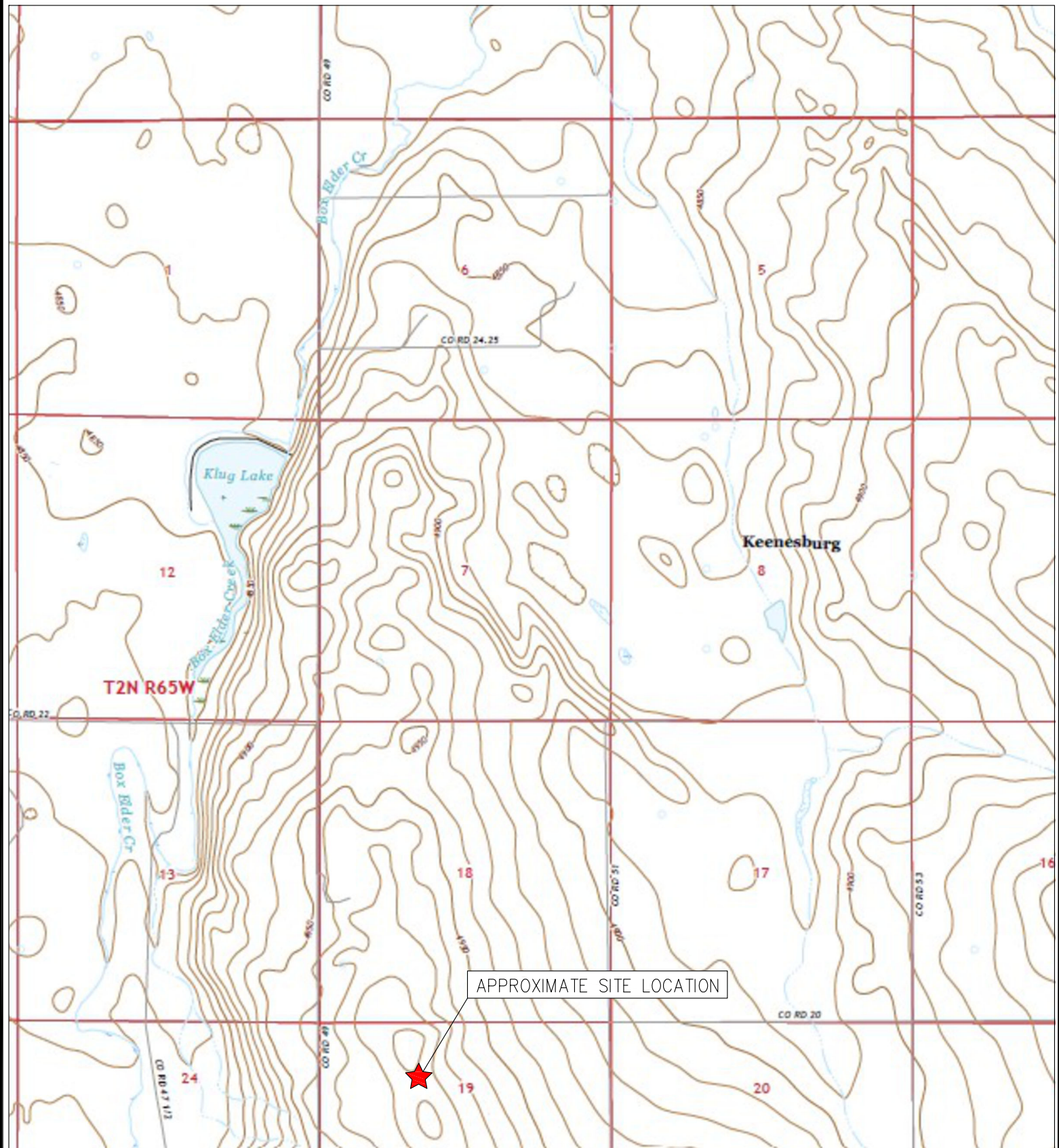
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Polycyclic Aromatic Hydrocarbons Map



TOPOGRAPHIC SITE LOCATION MAP
 RIES #3-19
 CLOSURE ASSESSMENT
 40.128061 / -104.597125
 NE 1/4 NW 1/4 SEC.19 T2N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-20957
 REMEDIATION # 24968



EAGLE
 ENVIRONMENTAL
 CONSULTING, INC.

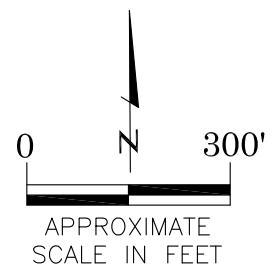
8000 W 44th Ave, Wheat Ridge, CO 80033
 Ph: 303-433-0479 • F: 303-325-5449





LEGEND

- FORMER RIES #3-19 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP
 RIES #3-19
 CLOSURE ASSESSMENT
 40.128061 / -104.597125
 NE¼ NW¼ SEC.19 T2N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-20957
 REMEDIATION # 24968

DRAWN BY:
 JF

FIGURE NO.
 2



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

LEGEND

- — WELLHEAD ASSESSMENT BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION	
DATE	
DEPTH (FEET)	
B	= BENZENE (mg/kg)
T	= TOLUENE (mg/kg)
E	= ETHYLBENZENE (mg/kg)
X	= TOTAL XYLENES (mg/kg)
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 = MILLIMHOS 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.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

SOIL ANALYTICAL MAP
 RIES #3-19
 CLOSURE ASSESSMENT
 40.128061 / -104.597125
 NE¼ NW¼ SEC.19 T2N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-20957
 REMEDIATION # 24968

DRAWN BY:

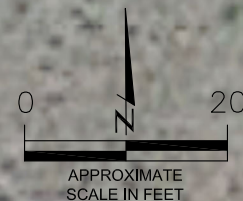
JF

FIGURE NO.

3

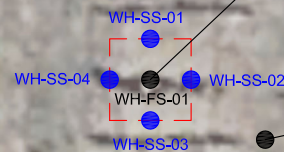


EAGLE
 ENVIRONMENTAL
 CONSULTING, INC.
 8000 W 44th Ave, Wheat Ridge, CO 80033
 Ph: 303-433-0479 • F: 303-325-5449

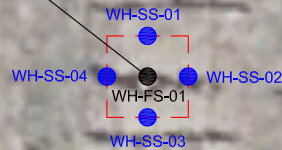


WH-FS-01@6'
 11/01/22
 6'
 B = <0.00200
 T = <0.00200
 E = <0.00200
 X = <0.00200
 G = <0.200
 D = <25.0
 R = <100
 1,2,4-TMB = <0.00200
 1,3,5-TMB = <0.00200
 Brn= 0.240
 EC = 0.590
 SAR= 3.80
 pH = **8.45**

BACKGROUND-01@3'
 11/01/22
 3'
 pH = 8.04



WH-FS-01@6'
 11/01/22
 6'
 ND = <0.00067
 1-Methylnaphthalene = <0.00201
 2-Methylnaphthalene = <0.00201
 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 = <0.00201
 Pyrene = ND



LEGEND

- - - WELLHEAD ASSESSMENT BOUNDARIES
- 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) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

ND = NON-DETECT

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.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP

RIES #3-19
 CLOSURE ASSESSMENT
 40.128061 / -104.597125
 NE¼ NW¼ SEC.19 T2N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-20957
 REMEDIATION # 24968

DRAWN BY:

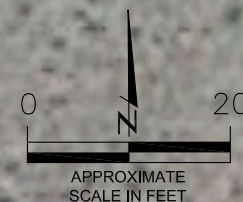
JF

FIGURE NO.

4



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





TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
RIES #3-19
CLOSURE ASSESSMENT
40.128061 / -104.597125
NE 1/4 NW 1/4 SEC.19 T2N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-20957
REMEDIATION # 24968

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.128086 / -104.597152)	11/01/22	5'	2.1	N
WH-SS-02 @ 5' (40.128072 / -104.597130)	11/01/22	5'	1.6	N
WH-SS-03 @ 5' (40.128062 / -104.597151)	11/01/22	5'	1.4	N
WH-SS-04 @ 5' (40.128074 / -104.597169)	11/01/22	5'	1.7	N
WH-FS-01 @ 6' (40.128073 / -104.597153)	11/01/22	6'	4.3	Y
Background-01 @ 3' (40.128056 / -104.597107)	11/01/22	3'	1.5	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
RIES #3-19
CLOSURE ASSESSMENT
40.128061 / -104.597125
NE 1/4 NW 1/4 SEC.19 T2N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-20957
REMIEDIATION # 24968

Sample Location		WH-FS-01 @ 6'		Background-01 @ 3'	
(Latitude / Longitude)		(40.128073 / -104.597153)		(40.128056 / -104.597107)	
Sample Date		11/01/22		11/01/22	
Sample Depth		6'		3'	
PID Reading (ppm-v)		4.3		1.5	
Regulatory Limits					
Chemical of Concern	Units	COGCC Table 915-1 RSSLs	COGCC Table 915-1 GSSLs		
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	<0.00201	NA
2-Methyl-naphthalene	mg/kg	24	0.019	<0.00201	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	<0.00201	NA
Pyrene	mg/kg	180	1.3	<0.00067	NA
Soil Suitability (Inorganics)					
Boron	mg/L	2	--	0.240	NA
pH	standard unit	6-8.3	--	8.45	8.04
Sodium Adsorption Ratio (SAR)	--	<6	--	3.80	NA
Specific Conductance (EC)	mmhos/cm	<4	--	0.590	NA
COGCC = Colorado Oil and Gas Conservation Commission		VOCs - Volatile Organic Compounds		NA = Not Analyzed	
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 with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit.		Values presented in BOLD exceed COGCC Table 915-1 Regulatory Limits.	



ATTACHMENT A

Photo Log

Ries #3-19
API # 05-123-20957
Remediation # 24968

Closure Assessment

November 2022

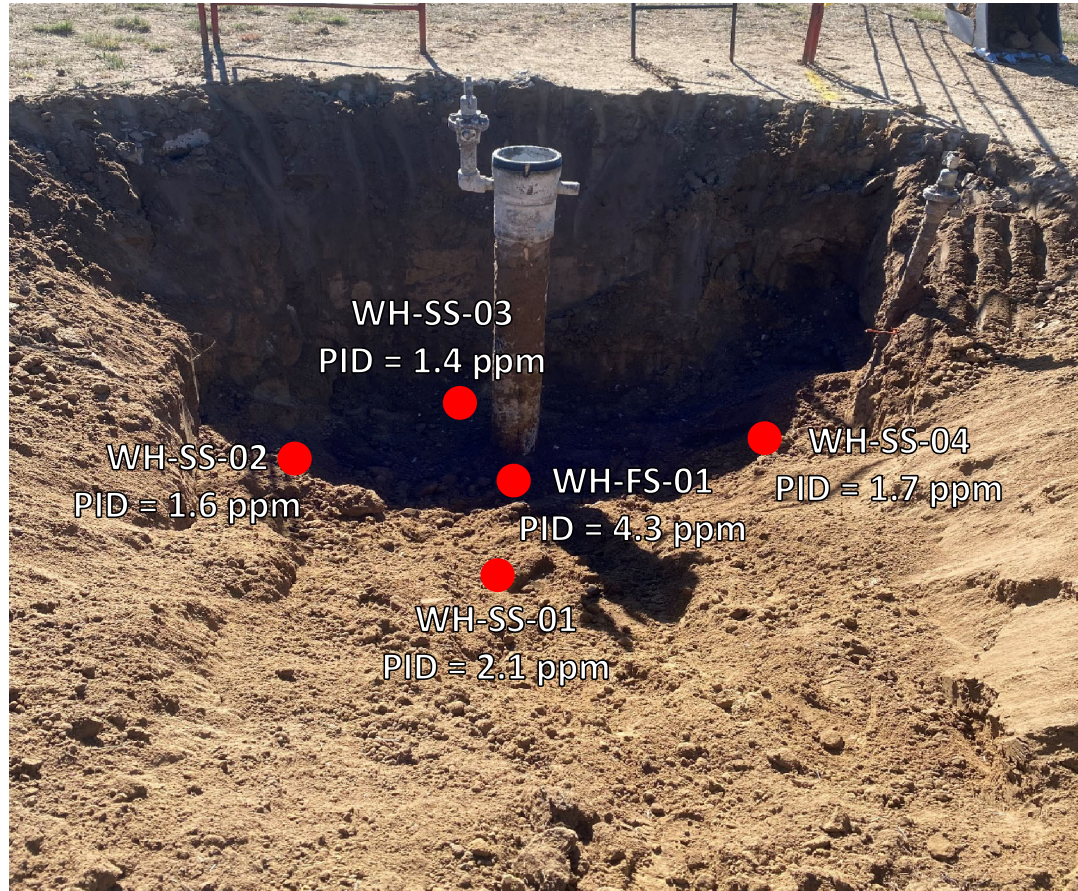


EAGLE
ENVIRONMENTAL
CONSULTING, INC.

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



Wellhead Excavation – 11/01/22



Looking south

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Reports



November 15, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Ries #3-19

Project Number - -

Attached are your analytical results for Noble - Ries #3-19 received by Origins Laboratory, Inc. November 01, 2022. This project is associated with Origins project number Y211037-01.

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: -
Project: Noble - Ries #3-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y211037-01	Soil	November 1, 2022 11:33	11/01/2022 12:50

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: -
 Project: Noble - Ries #3-19

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 9211037

Client: Eagle

Client Project ID: Res #3-19

Checklist Completed by: EHS

Shipped Via: HD

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

Date/time completed: 11/1/22

Airbill #: NA

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

Water

Other:

Cooler Number/Temperature: 1 10.3 °C / °C / °C (Describe) °C

Thermometer ID: 7009

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 (Project Manager) JB

Date/Time Reviewed 11-3-22

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: -
 Project: Noble - Ries #3-19

WH-FS-01@6'

11/1/2022 11:33:00AM

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

Origins Laboratory, Inc.
Y211037-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.240		0.0998	mg/L	1	B2K0411	11/04/2022	11/07/2022	
-------	-------	--	--------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2K0203	11/02/2022	11/04/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	95.1 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2K0335	11/03/2022	11/09/2022	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	108 %		70-130			"	"	"	
----------------------------------	-------	--	--------	--	--	---	---	---	--

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: -
 Project: Noble - Ries #3-19

WH-FS-01@6'

11/1/2022 11:33:00AM

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

**Origins Laboratory, Inc.
 Y211037-01 (Soil)**

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %		70-130			B2K03 35	11/03/2022	11/09/2022	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.12		0.499	meq/L	10	[CALC]	11/04/2022	11/08/2022	
Magnesium	0.830		0.823	"	"	"	"	"	
Sodium	3.75		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L647051	11/04/2022	11/07/2022	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
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.



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: -
 Project: Noble - Ries #3-19

WH-FS-01@6'

11/1/2022 11:33:00AM

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

Waypoint Analytical, LLC.
Y211037-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L647051	11/04/2022	11/07/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	49.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	54.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	45.6 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.45			pH Units	1	B2K0417	11/04/2022	11/08/2022	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	3.80			SAR	1	B2K0407	11/04/2022	11/08/2022	
-----	------	--	--	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.590		0.00500	mmhos/cm	1	B2K0422	11/04/2022	11/08/2022	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

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: -
 Project: Noble - Ries #3-19

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 B2K0203 - EPA 3580										
Blank (B2K0203-BLK1)										
					Prepared: 11/02/2022 Analyzed: 11/04/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		106	50-150			

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: -
 Project: Noble - Ries #3-19

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 B2K0203 - EPA 3580

LCS (B2K0203-BS1)

Prepared: 11/02/2022 Analyzed: 11/04/2022

Diesel (C10-C28)	990	50.0	mg/kg	1000		99.0	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

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: -
 Project: Noble - Ries #3-19

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 B2K0203 - EPA 3580

Matrix Spike (B2K0203-MS1)	Source: Y211012-01			Prepared: 11/02/2022 Analyzed: 11/04/2022						
Diesel (C10-C28)	954	50.0	mg/kg	1000	ND	95.4	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130			
Surrogate: o-Terphenyl	47		"	49.8		95.1	50-150			

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: -
 Project: Noble - Ries #3-19

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 B2K0203 - EPA 3580

Matrix Spike Dup (B2K0203-MSD1)	Source: Y211012-01			Prepared: 11/02/2022 Analyzed: 11/04/2022						
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130	7.52	35	
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130	3.00	35	
Surrogate: o-Terphenyl	48		"	49.8		97.0	50-150			

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: -
 Project: Noble - Ries #3-19

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 B2K0335 - EPA 5030 (soil)

Blank (B2K0335-BLK1)

Prepared: 11/03/2022 Analyzed: 11/08/2022

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	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	105		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.8		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: -
 Project: Noble - Ries #3-19

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 B2K0335 - EPA 5030 (soil)

LCS (B2K0335-BS1)

Prepared: 11/03/2022 Analyzed: 11/08/2022

1,2,4-Trimethylbenzene	0.116	0.00200	mg/kg	0.100		116	70-130			
1,3,5-Trimethylbenzene	0.113	0.00200	"	0.100		113	70-130			
Benzene	0.100	0.00200	"	0.100		100	70-130			
Ethylbenzene	0.119	0.00200	"	0.100		119	70-130			
Naphthalene	0.102	0.00380	"	0.100		102	70-130			
Toluene	0.107	0.00200	"	0.100		107	70-130			
o-Xylene	0.118	0.00200	"	0.100		118	70-130			
m,p-Xylene	0.221	0.00400	"	0.200		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: -
 Project: Noble - Ries #3-19

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 B2K0335 - EPA 5030 (soil)

Matrix Spike (B2K0335-MS1)	Source: Y211016-01			Prepared: 11/03/2022 Analyzed: 11/08/2022						
1,2,4-Trimethylbenzene	0.0794	0.00200	mg/kg	0.100	ND	79.4	70-130			
1,3,5-Trimethylbenzene	0.0770	0.00200	"	0.100	ND	77.0	70-130			
Benzene	0.0835	0.00200	"	0.100	ND	83.5	70-130			
Ethylbenzene	0.0893	0.00200	"	0.100	ND	89.3	70-130			
Naphthalene	0.0842	0.00380	"	0.100	ND	84.2	70-130			
Toluene	0.0827	0.00200	"	0.100	ND	82.7	70-130			
o-Xylene	0.0877	0.00200	"	0.100	ND	87.7	70-130			
m,p-Xylene	0.164	0.00400	"	0.200	ND	82.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: -
 Project: Noble - Ries #3-19

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 B2K0335 - EPA 5030 (soil)

Matrix Spike Dup (B2K0335-MSD1)	Source: Y211016-01			Prepared: 11/03/2022 Analyzed: 11/08/2022						
1,2,4-Trimethylbenzene	0.0988	0.00200	mg/kg	0.100	ND	98.8	70-130	21.8	20	QR-02
1,3,5-Trimethylbenzene	0.0966	0.00200	"	0.100	ND	96.6	70-130	22.6	20	QR-02
Benzene	0.0977	0.00200	"	0.100	ND	97.7	70-130	15.7	20	
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	18.8	20	
Naphthalene	0.0979	0.00380	"	0.100	ND	97.9	70-130	15.0	20	
Toluene	0.0982	0.00200	"	0.100	ND	98.2	70-130	17.2	20	
o-Xylene	0.106	0.00200	"	0.100	ND	106	70-130	19.0	20	
m,p-Xylene	0.200	0.00400	"	0.200	ND	100	70-130	19.7	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: -
 Project: Noble - Ries #3-19

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

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

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

Batch B2K0407 - Saturated Paste Metals

Blank (B2K0407-BLK1)

Prepared: 11/04/2022 Analyzed: 11/08/2022

SAR	0.00		SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

Duplicate (B2K0407-DUP1)

Source: Y211018-13

Prepared: 11/04/2022 Analyzed: 11/08/2022

Calcium PPM	37.2	10.0	mg/L		38.2		2.72	50		
SAR	0.00		SAR		4.01		200	200		
Magnesium PPM	16.5	10.0	mg/L		17.1		3.49	50		
Sodium PPM	115	10.0	"		119		2.86	50		

Batch B2K0411 - DTPA Sorbitol Preparation

Blank (B2K0411-BLK1)

Prepared: 11/04/2022 Analyzed: 11/07/2022

Boron	ND	0.100	mg/L							
-------	----	-------	------	--	--	--	--	--	--	--

Duplicate (B2K0411-DUP1)

Source: Y211018-21

Prepared: 11/04/2022 Analyzed: 11/07/2022

Boron	0.543	0.100	mg/L		0.414		26.9	50		
-------	-------	-------	------	--	-------	--	------	----	--	--

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: -
 Project: Noble - Ries #3-19

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2K0417 - NO PREP										
Duplicate (B2K0417-DUP1)		Source: Y211018-13			Prepared: 11/04/2022 Analyzed: 11/08/2022					
pH	8.32		pH Units		8.34			0.240	25	
Batch B2K0422 - Default Prep GenChem										
Blank (B2K0422-BLK1)					Prepared: 11/04/2022 Analyzed: 11/08/2022					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B2K0422-DUP1)		Source: Y211018-13			Prepared: 11/04/2022 Analyzed: 11/08/2022					
Specific Conductance (EC)	0.920	0.00500	mmhos/cm		0.940			2.20	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: -
 Project: Noble - Ries #3-19

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

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

Batch L647051 - 3550B

MSD (L 86388-MSD-L647051)	Source: 86388			Prepared: 11/04/2022 Analyzed: 11/07/2022						
2-Methylnaphthalene	0.0877	0.00201	mg/Kg	0.166	<0.00194	52.8	30-130	12.3	30	
Fluorene	0.121	0.00067	"	0.166	<0.000286	72.8	30-130	36.7	30	*
Pyrene	0.0816	0.00067	"	0.166	<0.000643	49.1	30-130	39.6	30	*
Indeno(1,2,3-cd)pyrene	0.11	0.00067	"	0.166	<0.000627	66.2	30-130	9.8	30	
Fluoranthene	0.0823	0.00067	"	0.166	<0.000394	49.5	30-130	33.1	30	*
Dibenz(a,h)anthracene	0.121	0.00067	"	0.166	<0.000614	72.8	30-130	4.2	30	
Chrysene	0.0985	0.00067	"	0.166	<0.000624	59.3	30-130	8.7	30	
Naphthalene	0.0832	0.00201	"	0.166	<0.00145	50.1	30-130	11.7	30	
1-Methylnaphthalene	0.0889	0.00201	"	0.166	<0.00109	53.5	30-130	13.8	30	
Benzo(k)fluoranthene	0.0952	0.00067	"	0.166	<0.000437	57.3	30-130	6.9	30	
Acenaphthene	0.0901	0.00067	"	0.166	<0.000304	54.2	30-130	12.6	30	
Anthracene	0.0921	0.00067	"	0.166	<0.000334	55.4	30-130	5.1	30	
Benzo(a)anthracene	0.0969	0.00067	"	0.166	<0.000493	58.3	30-130	7.6	30	
Benzo(a)pyrene	0.122	0.00067	"	0.166	<0.000468	73.4	30-130	11.2	30	
Benzo(b)fluoranthene	0.0937	0.00067	"	0.166	<0.000585	56.4	30-130	5.4	30	
<i>Surrogate: 2-Fluorobiphenyl</i>	51.8		"	0.332	161	51.8	33-115			
<i>Surrogate: Nitrobenzene-d5</i>	50		"	0.332	143	50	29-110			
<i>Surrogate: 4-Terphenyl-d14</i>	46.3		"	0.332	182	46.3	33-122			

MS (L 86388-MS-L647051)	Source: 86388			Prepared: 11/04/2022 Analyzed: 11/07/2022						
Benzo(k)fluoranthene	0.0888	0.00067	mg/Kg	0.164	<0.000437	54.1	30-130			
Acenaphthene	0.0794	0.00067	"	0.164	<0.000304	48.4	30-130			
Naphthalene	0.074	0.00201	"	0.164	<0.00145	45.1	30-130			
Indeno(1,2,3-cd)pyrene	0.0997	0.00067	"	0.164	<0.000627	60.7	30-130			
Fluorene	0.0834	0.00067	"	0.164	<0.000286	50.8	30-130			
Fluoranthene	0.115	0.00067	"	0.164	<0.000394	70.1	30-130			
Dibenz(a,h)anthracene	0.116	0.00067	"	0.164	<0.000614	70.7	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: -
 Project: Noble - Ries #3-19

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

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

Batch L647051 - 3550B

MS (L 86388-MS-L647051)	Source: 86388			Prepared: 11/04/2022 Analyzed: 11/07/2022						
Chrysene	0.0902	0.00067	mg/Kg	0.164	<0.000624	55	30-130			
1-Methylnaphthalene	0.0774	0.00201	"	0.164	<0.00109	47.1	30-130			
Benzo(a)pyrene	0.109	0.00067	"	0.164	<0.000468	66.4	30-130			
Anthracene	0.0875	0.00067	"	0.164	<0.000334	53.3	30-130			
Pyrene	0.122	0.00067	"	0.164	<0.000643	74.3	30-130			
2-Methylnaphthalene	0.0775	0.00201	"	0.164	<0.00194	47.2	30-130			
Benzo(b)fluoranthene	0.0887	0.00067	"	0.164	<0.000585	54	30-130			
Benzo(a)anthracene	0.0898	0.00067	"	0.164	<0.000493	54.7	30-130			
<i>Surrogate: Nitrobenzene-d5</i>	40.8		"	0.328	143	40.8	29-110			
<i>Surrogate: 4-Terphenyl-d14</i>	71.6		"	0.328	182	71.6	33-122			
<i>Surrogate: 2-Fluorobiphenyl</i>	45.4		"	0.328	161	45.4	33-115			

LCS (LCS-L647051)				Prepared: 11/04/2022 Analyzed: 11/07/2022						
Chrysene	0.102	0.00067	mg/Kg	0.167		61	30-130			
Dibenz(a,h)anthracene	0.127	0.00067	"	0.167		76	30-130			
Fluoranthene	0.104	0.00067	"	0.167		62.2	30-130			
Fluorene	0.0943	0.00067	"	0.167		56.4	30-130			
Indeno(1,2,3-cd)pyrene	0.109	0.00067	"	0.167		65.2	30-130			
Naphthalene	0.0857	0.00201	"	0.167		51.3	30-130			
Benzo(k)fluoranthene	0.0978	0.00067	"	0.167		58.5	30-130			
Pyrene	0.104	0.00067	"	0.167		62.2	30-130			
Benzo(a)pyrene	0.118	0.00067	"	0.167		70.6	30-130			
Benzo(a)anthracene	0.0963	0.00067	"	0.167		57.6	30-130			
Anthracene	0.0986	0.00067	"	0.167		59	30-130			
Acenaphthene	0.0874	0.00067	"	0.167		52.3	30-130			
2-Methylnaphthalene	0.0874	0.00201	"	0.167		52.3	30-130			
1-Methylnaphthalene	0.0882	0.00201	"	0.167		52.8	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: -
 Project: Noble - Ries #3-19

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

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

Batch L647051 - 3550B

LCS (LCS-L647051)

Prepared: 11/04/2022 Analyzed: 11/07/2022

Benzo(b)fluoranthene	0.107	0.00067	mg/Kg	0.167		64	30-130			
Surrogate: Nitrobenzene-d5	48.6		"	0.333		48.6	29-110			
Surrogate: 4-Terphenyl-d14	63		"	0.333		63	33-122			
Surrogate: 2-Fluorobiphenyl	53.7		"	0.333		53.7	33-115			

LRB (LRB-L647051)

Prepared: 11/04/2022 Analyzed: 11/07/2022

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	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	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	48		"	0.333		48	29-110			
Surrogate: 4-Terphenyl-d14	58.2		"	0.333		58.2	33-122			
Surrogate: 2-Fluorobiphenyl	53.4		"	0.333		53.4	33-115			

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: -
Project: Noble - Ries #3-19

Notes and Definitions

U Sample is Non-Detect.

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

* 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.

November 30, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Ries #3-19

Project Number - -

Attached are your analytical results for Noble - Ries #3-19 received by Origins Laboratory, Inc. November 18, 2022. This project is associated with Origins project number Y211490-01.

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: -
Project: Noble - Ries #3-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@3'	Y211490-01	Soil	November 1, 2022 11:35	11/18/2022 15:13

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: -
 Project: Noble - Ries #3-19

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1211490

Client: Eric Eagle Environmental

Client Project ID: Ries #3-19

Checklist Completed by: JSH/DE

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

Date/time completed: 11/21/22

Airbill #: n/a

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

Cooler Number/Temperature: 1160 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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)			X	
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: JSH (Project Manager) Date/Time Reviewed: 11-22-22

Origins Laboratory, Inc.

J. Bynon

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: -
 Project: Noble - Ries #3-19

Background-01@3'
11/1/2022 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y211490-01 (Soil)

pH in Soil by 9045D

pH	8.04		pH Units	1	B2K2211	HJD	11/22/2022	11/23/2022	
----	------	--	----------	---	---------	-----	------------	------------	--

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: -
 Project: Noble - Ries #3-19

Saturated Paste - Quality Control
Origins Laboratory, Inc.

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

Batch B2K2211 - Saturated Paste pH/EC

Duplicate (B2K2211-DUP1)

Source: Y211488-01

Prepared: 11/22/2022 Analyzed: 11/23/2022

pH	8.04		pH Units		8.07			0.372	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: -
Project: Noble - Ries #3-19

Notes and Definitions

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.