

Wellhead Closure Checklist

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

Additional attachments (optional):	Pit Closure	Tank Battery Closure	Flowline Closure	Partially Buried Vault Closure
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Site Name & COGCC Facility Number: ODLE # BB19-11	Date: 6-30-22	Remediation Project #: 23206
Associated Wells: 05-123-15530	Age of Site: YEARS	Number of Photos Attached: 1
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.383321, -104.481335		Estimated Facility Size (acres):
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) GOOD		

USCS Soil Type: SW	Estimated Depth to Groundwater: > 20'
---------------------------	---

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
NONE 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	05-123-15530				
Age	YEARS				
Condition of surface around wellhead	GOOD - PEX CREW				
PID Readings	N/A - EXCAVATED UPON ARRIVAL				
Condition of subsurface	GOOD				
Subsurface PID Readings	3.5	3.2	3.5	2.5	4.2
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-SS-01
Photo Number(s)	SEE PHOTOLOG				

Other observations regarding wellheads:
WELL CASING CUT/CAPPED FOLLOWING ASSESSMENT.

Summary

Was impacted soil identified?		Yes - less than 10 cubic yards		Yes - more than 10 cubic yards	
<input checked="" type="radio"/> No					
Total number of samples field screened: 5			Total number of samples collected: 5		
Highest PID Reading: 4.2			Total number of samples submitted to lab for analysis: 1		
If more than 10 cubic yards of impacted soil were observed:					
Vertical extent: N/A			Estimated spill volume:		
Lateral extent: N/A			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



APPROXIMATE SITE LOCATION

TOPOGRAPHIC SITE LOCATION MAP
 ODLE #BB19-11
 CLOSURE ASSESSMENT
 40.383321 / -104.481335
 NE¼ SW¼ SEC.19 T5N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-15530
 REMEDIATION # 23206



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 ENVIRONMENTAL
 CONSULTING, INC.

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

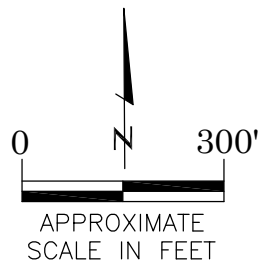
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,
 BARNESVILLE, CO QUADRANGLE 2022

FIGURE 1



LEGEND

- FORMER ODLE #BB19-11 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP
 ODLE #BB19-11
 CLOSURE ASSESSMENT
 40.383321 / -104.481335
 NE¼ SW¼ SEC.19 T5N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-15530
 REMEDIATION # 23206

FIG. NO.
2

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CT



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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

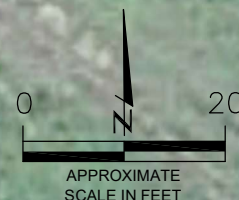
ODLE #BB19-11
 CLOSURE ASSESSMENT
 40.383321 / -104.481335
 NE¼ SW¼ SEC.19 T5N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-15530
 REMEDIATION # 23206

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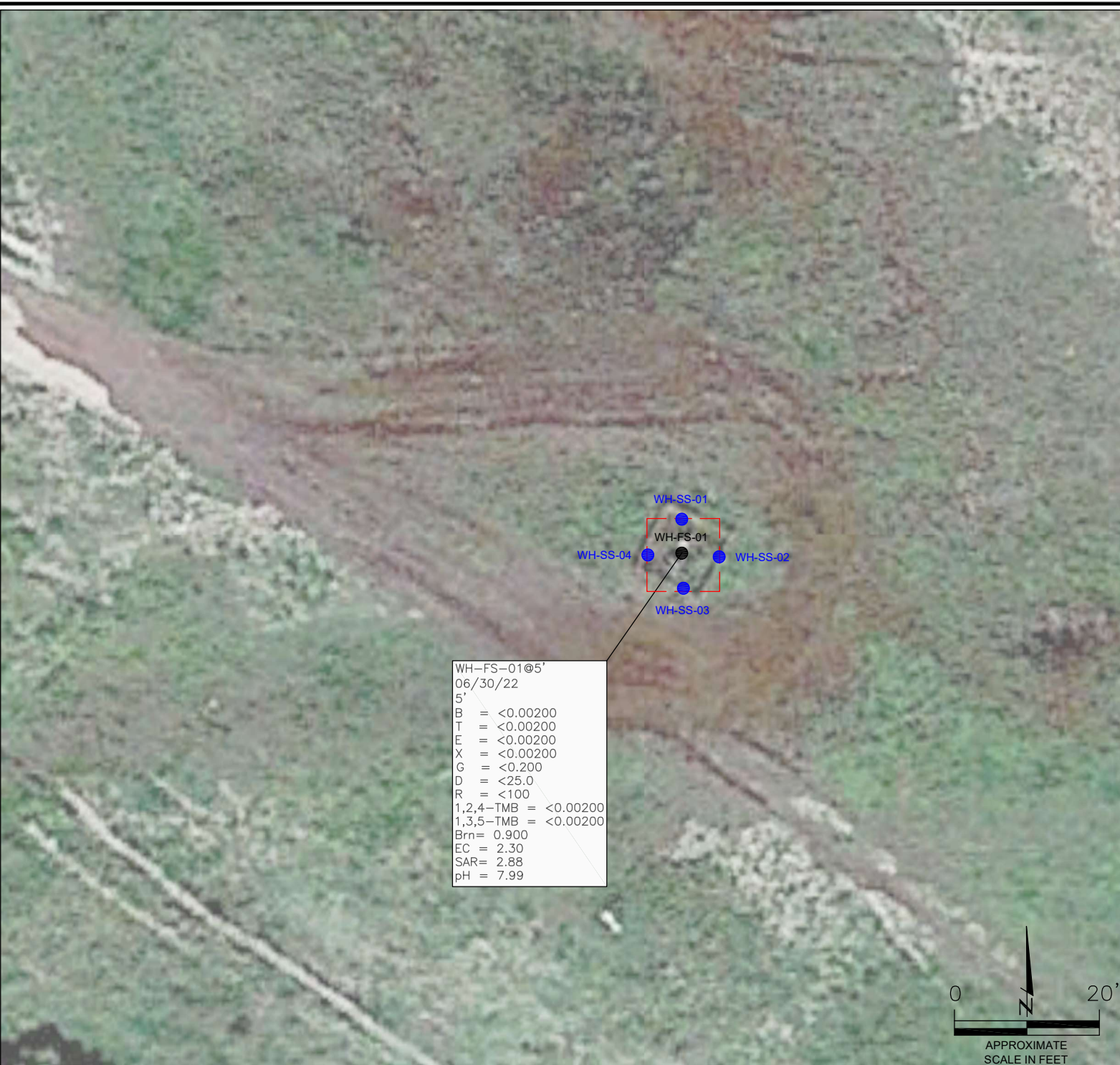
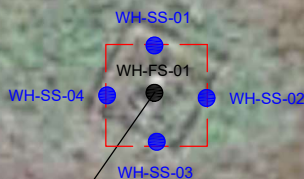
FIG. NO. 3



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WH-FS-01@5'
06/30/22
5'
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= 0.900
EC = 2.30
SAR= 2.88
pH = 7.99



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

mg/kg = MILLIGRAMS PER KILOGRAM

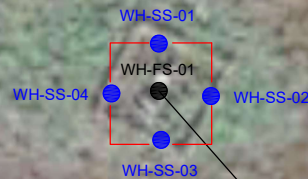
ND = NON-DETECT

NOTES:

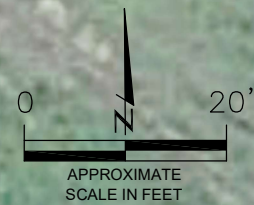
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS.

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

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION



WH-FS-01@5'
06/30/22
5'
ND = <0.00335
1-Methylnaphthalene = ND
2-Methylnaphthalene = ND
Acenaphthene = ND
Anthracene = ND
Benzo(a)anthracene = 0.00294
Benzo(a)pyrene = 0.00529
Benzo(b)fluoranthene = 0.00614
Benzo(k)fluoranthene = ND
Chrysene = 0.00516
Dibenzo(a,h)anthracene = ND
Fluoranthene = 0.00624
Fluorene = ND
Indeno(1,2,3-CD)pyrene = ND
Naphthalene = ND
Pyrene = 0.00679



POLYCYCLIC AROMATIC HYDROCARBONS MAP

ODLE #BB19-11
 CLOSURE ASSESSMENT
 40.383321 / -104.481335
 NE¼ SW¼ SEC.19 T5N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-15530
 REMEDIATION # 23206

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FIG.
NO. 4



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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

Table 3: Polycyclic Aromatic Hydrocarbons Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
ODLE #BB19-11
CLOSURE ASSESSMENT
40.383321 / -104.481335
NE 1/4 SW 1/4 SEC.19 T5N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-15530
REMEDIATION # 23206

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 4' (40.383352 / -104.481331)	06/30/22	4	3.5	N
WH-SS-02 @ 4' (40.383334 / -104.481320)	06/30/22	4	3.2	N
WH-SS-03 @ 4' (40.383320 / -104.481338)	06/30/22	4	3.5	N
WH-SS-04 @ 4' (40.383340 / -104.481356)	06/30/22	4	2.5	N
WH-FS-01 @ 5' (40.383336 / -104.481336)	06/30/22	5	4.2	Y

(Y/N) = Yes or No

ppm-v = parts per million by volume

PID = Photoionization Detector

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
ODLE #BB19-11
CLOSURE ASSESSMENT
40.383321 / -104.481335
NE 1/4 SW 1/4 SEC.19 T5N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-15530
REMEDIATION # 23206

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
COGCC Table 915-1 Residential Screening Levels (mg/kg)				1.20	490	5.8	58	500			30	27	2	<4	6-8.3	<6
COGCC Table 915-1 Protection of Groundwater Soil Screening Levels				0.0026	0.69	0.78	9.9	--			0.0081	0.0087	--	--	--	--
WH-FS-01 @ 5' (40.383336 / -104.481336)	06/30/22	5	4.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.900	2.30	7.99	2.88

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

Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.

Note: Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Regulatory Limits.

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics

1,2,4-TMB = 1,2,4-Trimethylbenzene

1,3,5-TMB = 1,3,5-Trimethylbenzene

TABLE 3
POLYCYCLIC AROMATIC HYDROCARBONS ANALYTICAL RESULTS SUMMARY
ODLE #BB19-11
CLOSURE ASSESSMENT
40.383321 / -104.481335
NE 1/4 SW 1/4 SEC.19 T5N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-15530
REMEDIAION # 23206

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	1-Methyl- naphthalene (mg/kg)	2-Methyl-naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)-anthracene (mg/kg)	Benzo(a)- pyrene (mg/kg)	Benzo(b)- fluoranthene (mg/kg)	Benzo(k)- fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)- anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3- cd)-pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
COGCC Table 915-1 Residential Screening Levels				18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	2	180
COGCC Table 915-1 Protection of Groundwater Soil Screening Levels				0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	0.0038	1.3
WH-FS-01 @ 5' (40.383336 / -104.481336)	06/30/22	5	4.2	<0.00335	<0.00335	<0.00335	<0.00335	0.00294	0.00529	0.00614	<0.00335	0.00516	<0.00335	0.00624	<0.00335	<0.00335	<0.00335	0.00679

COGCC = Colorado Oil and Gas Conservation Commission PID = Photoionization Detector

mg/kg = milligrams per kilogram ppm-v = parts per million by volume

Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.

Note: Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Regulatory Limits



ATTACHMENT A

Photo Log

Odle #BB19-11
API # 05-123-15530
Remediation # 23206

Closure Assessment

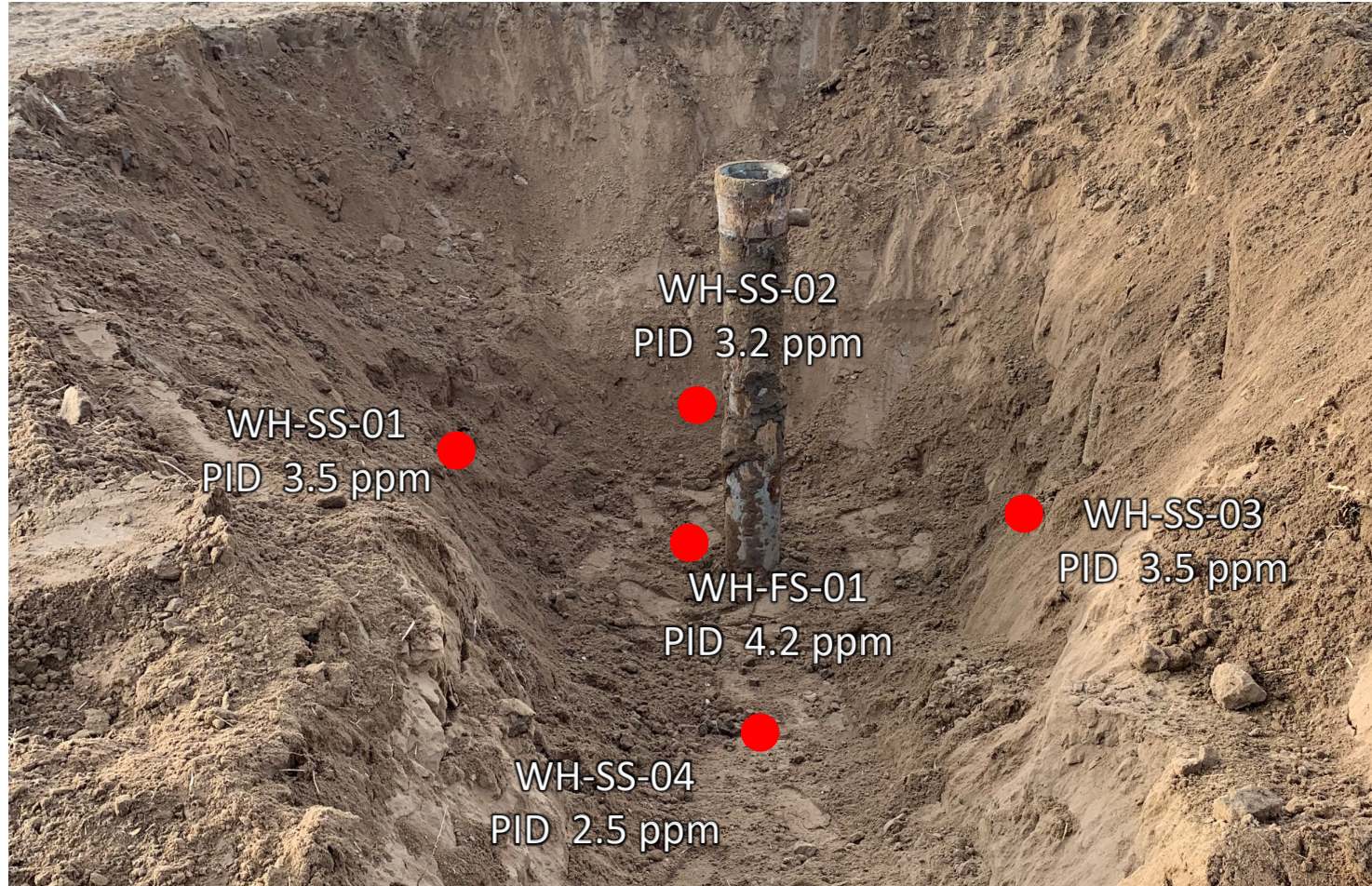
June 2022



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Wellhead Excavation – 06/30/22



Looking east

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Report



July 18, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Odle #BB 19-11

Project Number - [none]

Attached are your analytical results for Noble - Odle #BB 19-11 received by Origins Laboratory, Inc. June 30, 2022. This project is associated with Origins project number Y207011-01.

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 - Odle #BB 19-11

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@5'	Y207011-01	Soil	June 30, 2022 9:23	06/30/2022 14:51

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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 - Odle #BB 19-11

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

Origins Work Order: Y20704
 Checklist Completed by: MS
 Date/time completed: 7/1/22
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other:
 Cooler Number/Temperature: 1187 °C / °C / °C (Describe)
 Thermometer ID: T204

Client: Eagle
 Client Project ID: Odle #BB 19-11
 Shipped Via: HD
 Airbill #: NA
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

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)	✓			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		d		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		r		
Were all samples received intact ⁽¹⁾ ?	a			
Was adequate sample volume provided ⁽¹⁾ ?	a			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		r		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	a			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	a			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.				
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			d	
Additional Comments (if any):			r	

⁽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): MS Date/Time Reviewed: 7-5-22

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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 - Odle #BB 19-11

WH-FS-01@5'
6/30/2022 9:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y207011-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.900		0.100	mg/L	1	B2G0505	07/05/2022	07/06/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2G0514	07/05/2022	07/15/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2G0524	07/05/2022	07/06/2022	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	107 %		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.

Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Odle #BB 19-11

WH-FS-01@5'
6/30/2022 9:23:00AM

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

Origins Laboratory, Inc.
Y207011-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %		70-130			B2G05 24	07/05/2022	07/06/2022	
Surrogate: 4-Bromofluorobenzene	99.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	9.58		0.499	meq/L	10	[CALC]	07/05/2022	07/06/2022	
Magnesium	5.91		0.823	"	"	"	"	"	
Sodium	8.00		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L625680	07/08/2022	07/08/2022	
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"	
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	0.00294	0.00247	0.00335	"	"	"	"	"	J
Benzo(a)pyrene	0.00529	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	0.00614	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	0.00516	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	0.00624	0.00197	0.00335	"	"	"	"	"	
Fluorene	ND	0.00143	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 - Odle #BB 19-11

WH-FS-01@5'
6/30/2022 9:23:00AM

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

Waypoint Analytical, Inc.
Y207011-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	mg/Kg	5	L625680	07/08/2022	07/08/2022	
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"	
Pyrene	0.00679	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	52.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	62.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	66.7 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.99			pH Units	1	B2G0506	07/05/2022	07/06/2022	
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SAR by 20B Saturated Paste

SAR	2.88			SAR	1	B2G0504	07/05/2022	07/06/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.30		0.00500	mmhos/cm	1	B2G0506	07/05/2022	07/06/2022	
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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 - Odle #BB 19-11

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 B2G0514 - EPA 3580										
Blank (B2G0514-BLK1)										
					Prepared: 07/05/2022 Analyzed: 07/11/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		84.1	50-150			

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Odle #BB 19-11

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 B2G0514 - EPA 3580

LCS (B2G0514-BS1)

Prepared: 07/05/2022 Analyzed: 07/11/2022

Diesel (C10-C28)	480	25.0	mg/kg	500		95.9	70-130			
Residual Range Organics (C28-C40)	461	100	"	500		92.2	70-130			
Surrogate: o-Terphenyl	25		"	24.9		102	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Odle #BB 19-11

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 B2G0514 - EPA 3580

Matrix Spike (B2G0514-MS1)	Source: Y207003-02			Prepared: 07/05/2022 Analyzed: 07/11/2022						
Diesel (C10-C28)	511	25.0	mg/kg	500	ND	102	70-130			
Residual Range Organics (C28-C40)	448	100	"	500	ND	89.6	70-130			
Surrogate: o-Terphenyl	20		"	24.9		79.2	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Odle #BB 19-11

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 B2G0514 - EPA 3580

Matrix Spike Dup (B2G0514-MSD1)	Source: Y207003-02		Prepared: 07/05/2022 Analyzed: 07/11/2022							
Diesel (C10-C28)	476	25.0	mg/kg	500	ND	95.1	70-130	7.21	35	
Residual Range Organics (C28-C40)	396	100	"	500	ND	79.2	70-130	12.2	35	
Surrogate: o-Terphenyl	19		"	24.9		76.9	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Odle #BB 19-11

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 B2G0524 - EPA 5030 (soil)

Blank (B2G0524-BLK1)

Prepared: 07/05/2022 Analyzed: 07/06/2022

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	105		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	100		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	98.9		70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Odle #BB 19-11

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 B2G0524 - EPA 5030 (soil)

LCS (B2G0524-BS1)

Prepared: 07/05/2022 Analyzed: 07/06/2022

1,2,4-Trimethylbenzene	0.114	0.00200	mg/kg	0.100		114	70-130			
1,3,5-Trimethylbenzene	0.118	0.00200	"	0.100		118	70-130			
Benzene	0.0880	0.00200	"	0.100		88.0	70-130			
Ethylbenzene	0.116	0.00200	"	0.100		116	70-130			
Naphthalene	0.115	0.0100	"	0.100		115	70-130			
Toluene	0.0970	0.00200	"	0.100		97.0	70-130			
o-Xylene	0.114	0.00200	"	0.100		114	70-130			
m,p-Xylene	0.238	0.00400	"	0.200		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Odle #BB 19-11

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 B2G0524 - EPA 5030 (soil)

Matrix Spike (B2G0524-MS1)	Source: Y207010-01			Prepared: 07/05/2022 Analyzed: 07/06/2022						
1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100	ND	107	70-130			
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130			
Benzene	0.102	0.00200	"	0.100	0.00112	101	70-130			
Ethylbenzene	0.114	0.00200	"	0.100	ND	114	70-130			
Naphthalene	0.115	0.0100	"	0.100	ND	115	70-130			
Toluene	0.107	0.00200	"	0.100	0.00150	105	70-130			
o-Xylene	0.112	0.00200	"	0.100	ND	112	70-130			
m,p-Xylene	0.226	0.00400	"	0.200	0.00122	113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Odle #BB 19-11

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 B2G0524 - EPA 5030 (soil)

Matrix Spike Dup (B2G0524-MSD1)	Source: Y207010-01			Prepared: 07/05/2022 Analyzed: 07/06/2022						
1,2,4-Trimethylbenzene	0.0901	0.00200	mg/kg	0.100	ND	90.1	70-130	16.7	20	
1,3,5-Trimethylbenzene	0.0921	0.00200	"	0.100	ND	92.1	70-130	16.7	20	
Benzene	0.0863	0.00200	"	0.100	0.00112	85.2	70-130	16.7	20	
Ethylbenzene	0.0981	0.00200	"	0.100	ND	98.1	70-130	15.4	20	
Naphthalene	0.0965	0.0100	"	0.100	ND	96.5	70-130	17.4	20	
Toluene	0.0914	0.00200	"	0.100	0.00150	89.9	70-130	15.6	20	
o-Xylene	0.0942	0.00200	"	0.100	ND	94.2	70-130	17.2	20	
m,p-Xylene	0.195	0.00400	"	0.200	0.00122	96.7	70-130	15.1	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Odle #BB 19-11

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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Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2G0505 - Default Prep Metals

Blank (B2G0505-BLK1)

Prepared: 07/05/2022 Analyzed: 07/06/2022

Boron	ND	0.100	mg/L							U
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Duplicate (B2G0505-DUP1)

Source: Y207003-02

Prepared: 07/05/2022 Analyzed: 07/06/2022

Boron	0.273	0.100	mg/L		0.180			40.7	50	
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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Odle #BB 19-11

**Saturated Paste - Quality Control
 Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2G0506 - NO PREP										
Blank (B2G0506-BLK1)					Prepared: 07/05/2022 Analyzed: 07/06/2022					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
pH	0.00		pH Units							
Duplicate (B2G0506-DUP1)					Source: Y207003-02 Prepared: 07/05/2022 Analyzed: 07/06/2022					
pH	7.32		pH Units		7.31			0.137	25	
Specific Conductance (EC)	0.800	0.00500	mmhos/cm		0.888			10.4	25	

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Odle #BB 19-11

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 L625680 - 3550B

MSD (L 87564-MSD-L625680)		Source: 87564			Prepared: 07/08/2022 Analyzed: 07/08/2022					
Benzo(k)fluoranthene	0.0833	0.000437	mg/Kg	0.165	0.000437	50.2	30-130	15	30	
Indeno(1,2,3-cd)pyrene	0.0768	0.000627	"	0.165	<0.000627	46.5	30-130	7.7	30	
Fluorene	0.0998	0.000286	"	0.165	<0.000286	60.4	30-130	3.1	30	
Fluoranthene	0.104	0.000394	"	0.165	<0.000394	63	30-130	0.9	30	
Chrysene	0.107	0.000624	"	0.165	<0.000624	64.8	30-130	1.8	30	
Naphthalene	0.0866	0.000484	"	0.165	<0.000484	52.4	30-130	3.9	30	
Benzo(b)fluoranthene	0.0783	0.000585	"	0.165	<0.000585	47.4	30-130	6.8	30	
Benzo(a)anthracene	0.111	0.000493	"	0.165	<0.000493	67.2	30-130	2.7	30	
Anthracene	0.102	0.000334	"	0.165	<0.000334	61.8	30-130	1.9	30	
Pyrene	0.103	0.000643	"	0.165	<0.000643	62.4	30-130	0	30	
Acenaphthene	0.0953	0.000304	"	0.165	<0.000304	57.7	30-130	5.8	30	
2-Methylnaphthalene	0.0892	0.000645	"	0.165	<0.000645	54	30-130	5.2	30	
Benzo(a)pyrene	0.116	0.000468	"	0.165	<0.000468	70.3	30-130	4.4	30	
1-Methylnaphthalene	0.0892	0.000364	"	0.165	<0.000364	54	30-130	5.5	30	
Dibenz(a,h)anthracene	0.1	0.000614	"	0.165	<0.000614	60.6	30-130	7.6	30	
Surrogate: Nitrobenzene-d5	66.6		"	0.33	195	66.6	29-110			
Surrogate: 4-Terphenyl-d14	65.7		"	0.33	207	65.7	33-122			
Surrogate: 2-Fluorobiphenyl	53.3		"	0.33	157	53.3	33-115			

MS (L 87564-MS-L625680)		Source: 87564			Prepared: 07/08/2022 Analyzed: 07/08/2022					
Pyrene	0.103	0.000643	mg/Kg	0.166	<0.000643	62	30-130			
Benzo(k)fluoranthene	0.0969	0.000437	"	0.166	0.000437	58.1	30-130			
Chrysene	0.105	0.000624	"	0.166	<0.000624	63.2	30-130			
Dibenz(a,h)anthracene	0.108	0.000614	"	0.166	<0.000614	65	30-130			
Fluoranthene	0.103	0.000394	"	0.166	<0.000394	62	30-130			
Fluorene	0.103	0.000286	"	0.166	<0.000286	62	30-130			
Naphthalene	0.0901	0.000484	"	0.166	<0.000484	54.2	30-130			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Odle #BB 19-11

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 L625680 - 3550B

MS (L 87564-MS-L625680)	Source: 87564		Prepared: 07/08/2022 Analyzed: 07/08/2022							
Indeno(1,2,3-cd)pyrene	0.083	0.000627	mg/Kg	0.166	<0.000627	50	30-130			
Benzo(b)fluoranthene	0.0731	0.000585	"	0.166	<0.000585	44	30-130			
Benzo(a)pyrene	0.111	0.000468	"	0.166	<0.000468	66.8	30-130			
Benzo(a)anthracene	0.108	0.000493	"	0.166	<0.000493	65	30-130			
Anthracene	0.104	0.000334	"	0.166	<0.000334	62.6	30-130			
Acenaphthene	0.101	0.000304	"	0.166	<0.000304	60.8	30-130			
2-Methylnaphthalene	0.094	0.000645	"	0.166	<0.000645	56.6	30-130			
1-Methylnaphthalene	0.0943	0.000364	"	0.166	<0.000364	56.8	30-130			
Surrogate: 4-Terphenyl-d14	66.8		"	0.332	207	66.8	33-122			
Surrogate: Nitrobenzene-d5	70.4		"	0.332	195	70.4	29-110			
Surrogate: 2-Fluorobiphenyl	58.1		"	0.332	157	58.1	33-115			

LCS (LCS-L625680)	Prepared: 07/08/2022 Analyzed: 07/08/2022									
Benzo(k)fluoranthene	0.0818	0.000437	mg/Kg	0.167		48.9	30-130			
Chrysene	0.114	0.000624	"	0.167		68.2	30-130			
Pyrene	0.102	0.000643	"	0.167		61	30-130			
Naphthalene	0.0748	0.000484	"	0.167		44.7	30-130			
Indeno(1,2,3-cd)pyrene	0.0726	0.000627	"	0.167		43.4	30-130			
Fluorene	0.088	0.000286	"	0.167		52.6	30-130			
Benzo(a)pyrene	0.122	0.000468	"	0.167		73	30-130			
Dibenz(a,h)anthracene	0.0996	0.000614	"	0.167		59.6	30-130			
1-Methylnaphthalene	0.0773	0.000364	"	0.167		46.2	30-130			
Benzo(b)fluoranthene	0.0745	0.000585	"	0.167		44.6	30-130			
Benzo(a)anthracene	0.117	0.000493	"	0.167		70	30-130			
Anthracene	0.0958	0.000334	"	0.167		57.3	30-130			
Acenaphthene	0.083	0.000304	"	0.167		49.7	30-130			
2-Methylnaphthalene	0.0767	0.000645	"	0.167		45.9	30-130			

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Odle #BB 19-11

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 L625680 - 3550B

LCS (LCS-L625680)

Prepared: 07/08/2022 Analyzed: 07/08/2022

Fluoranthene	0.102	0.000394	mg/Kg	0.167		61	30-130			
Surrogate: Nitrobenzene-d5	69		"	0.333		69	29-110			
Surrogate: 4-Terphenyl-d14	78.3		"	0.333		78.3	33-122			
Surrogate: 2-Fluorobiphenyl	54.3		"	0.333		54.3	33-115			

LRB (LRB-L625680)

Prepared: 07/08/2022 Analyzed: 07/08/2022

Fluoranthene	ND	0.00067	mg/Kg				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	70.5		"	0.333		70.5	29-110			
Surrogate: 4-Terphenyl-d14	74.1		"	0.333		74.1	33-122			
Surrogate: 2-Fluorobiphenyl	59.7		"	0.333		59.7	33-115			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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 - Odle #BB 19-11

Notes and Definitions

- U Sample is Non-Detect.
- J Estimated Value. Analyte below reported quantitation limit.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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