

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
		—		—		3-2-22	—

Site Name & COGCC Facility Number: <i>Lilli Unit 4-17</i>	Date: <i>3-2-22</i>	Remediation Project #: <i>21641</i>
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Associated Wells: <i>2</i> <i>05-123-14008</i>	Age of Site: <i>years</i>	Number of Photos Attached: <i>1</i>
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Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) <i>40.667300 / -103.893830</i>	Estimated Facility Size (acres):
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General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)
Overall good condition

USCS Soil Type: <i>SC</i>	Estimated Depth to Groundwater: <i>>20'</i>
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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	<i>05-123-14008</i>					
Age	<i>years</i>					
Condition of surface around wellhead	<i>Good - Per Crew</i>					
PID Readings	<i>N/A - Excavated upon arrival</i>					
Condition of subsurface (stagnant)	<i>Good - no staining, no odor</i>					
PID Readings	<i>1.3</i>	<i>2.3</i>	<i>2.1</i>	<i>2.0</i>	<i>2.7</i>	
Sample taken? Location/Sample ID#	<i>WH-SS-01</i>	<i>WH-SS-02</i>	<i>WH-SS-03</i>	<i>WH-SS-04</i>	<i>WH-FS-01</i>	
Photo Number(s)	<i>See photoblog</i>					

Other observations regarding wellheads:
well casing cut/capped after assessment

Summary

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

Total number of samples field screened: <i>5</i>	Total number of samples collected: <i>5</i>
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Highest PID Reading: <i>2.7</i>	Total number of samples submitted to lab for analysis: <i>1</i>
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If more than 10 cubic yards of impacted soil were observed:

Vertical extent:	Estimated spill volume:
Lateral extent:	Volume of soil removed:

Is additional investigation required? *N/A*

Was groundwater encountered during the investigation? No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils

Measured depth to groundwater:	Was remedial groundwater removal conducted? Yes No
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Date Groundwater was encountered:	Commencement date of removal:
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Sheen on groundwater? Yes No	Volume of groundwater removed prior to sampling:
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Free product observed? Yes No	Volume of groundwater removed post sampling:
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Total number of samples collected:	Total Volume of groundwater removed:
Total number of samples submitted to lab for analysis:	

Flowline Closure Checklist

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

Additional Attachments:		Tank Battery Closure		Wellhead Closure	3-2-22	Pit Closure	-	Partially Buried Vault Closure	-
Site Name & COGCC Facility Number: <i>Lilli Unit 4-17</i>		Date:		3-2-22		Remediation Project #: <i>21641</i>			
Associated Wells: <i>1</i> <i>05-123-14008</i>		Age of Site:		<i>years</i>		Number of Photos Attached: <i>2</i>			
Starting point: (GPS coordinates and descriptions)									
<i>At Well: 40.66725 / -103.893791</i>									
End point: (GPS coordinates and descriptions)									
<i>At Sep: 40.669211 / -103.906819</i>									
USCS Soil Type:					Estimated Depth to Groundwater:				
<i>SC</i>					<i>>20'</i>				
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)									
<i>None observed</i>									
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)									
<i>None observed</i>									
Flowlines									
Flowline type	<i>O.G.W</i>								
Depth	<i>~4'</i>								
Age	<i>years</i>								
Length	<i>~2265</i>								
Construction Material	<i>Steel</i>								
Were flowlines pulled?	<i>No - Abandoned in place</i>								
Visual Integrity of lines	<i>Good</i>								
Visual impacts if trenched	<i>N/A</i>								
PID Readings if trenched	<i>1.1</i>	<i>1.0</i>							
Sample taken? Location/Sample ID#	<i>FL-SS-01</i>	<i>FL-SS-02</i>							
Photo Number(s)	<i>See photolog</i>								
Other observations regarding on location flowlines:									
<i>Flowline abandoned in place - change of direction field assessed via hand auger</i>									
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:					Total number of samples collected:				
<i>2</i>					<i>2</i>				
Highest PID Reading:					Total number of samples submitted to lab for analysis:				
<i>1.1</i>					<i>0</i>				
If more than 10 cubic yards of impacted soil were observed:									
Vertical extent:					Estimated spill volume:				
Lateral extent:					Volume of soil removed:				
Is additional investigation required?									
<i>N/A</i>									
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
 Lilli Unit #4-17
 Closure Assessment
 40.667300 / -103.893830
 NW¼ NW¼ Sec.17 T8N R58W 6PM
 Weld County, Colorado
 API # 05-123-14008
 Remediation # 21641



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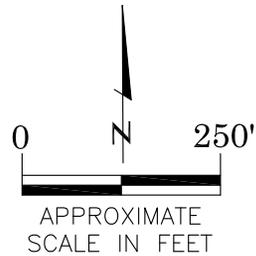
Source: USGS 7.5 Minute Topographic Map, Raymer NW, CO Quadrangle 2022

Figure 1



LEGEND

- FORMER LILLI UNIT #4-17 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)
- APPROXIMATE FIELD SCREEN LOCATIONS



AERIAL SITE LOCATION MAP
 LILLI UNIT #4-17
 CLOSURE ASSESSMENT
 40.667300 / -103.893830
 NW¼ NW¼ SEC.17 T8N R58W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-14008
 REMEDIATION # 21641

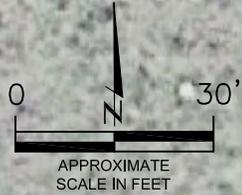
DATE: 04/22/22	
FIG. NO. 2	DRAWN BY: RTG



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



WH-FS-01@6'
 03/02/22
 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= 0.300
 EC = 0.390
 SAR= 1.94
 pH = 8.17



LEGEND

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

PARAMETERS

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

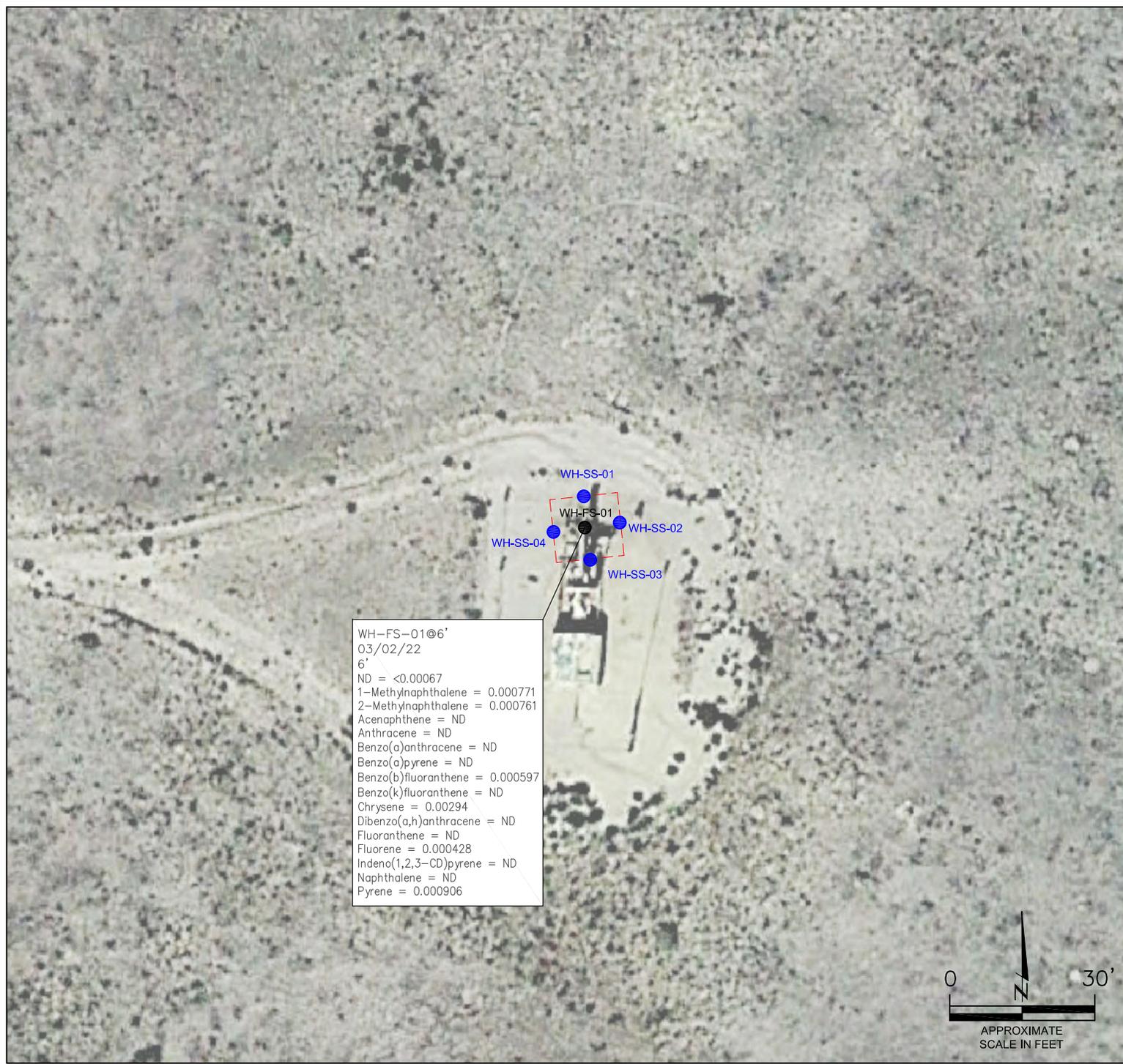
VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 915-1 REGULATORY LIMITS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

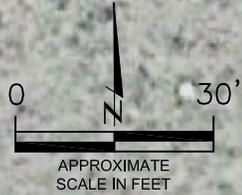
SOIL ANALYTICAL MAP
 LILLI UNIT #4-17
 CLOSURE ASSESSMENT
 40.667300 / -103.893830
 NW¼ NW¼ SEC.17 T8N R58W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-14008
 REMEDIATION # 21641

DATE:
 04/22/22
 DRAWN BY:
 RTG
 FIG.
 NO. 3

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 Ph: 303-433-0479 • F: 303-325-5449



WH-FS-01@6'
 03/02/22
 6'
 ND = <0.00067
 1-Methylnaphthalene = 0.000771
 2-Methylnaphthalene = 0.000761
 Acenaphthene = ND
 Anthracene = ND
 Benzo(a)anthracene = ND
 Benzo(a)pyrene = ND
 Benzo(b)fluoranthene = 0.000597
 Benzo(k)fluoranthene = ND
 Chrysene = 0.00294
 Dibenzo(a,h)anthracene = ND
 Fluoranthene = ND
 Fluorene = 0.000428
 Indeno(1,2,3-CD)pyrene = ND
 Naphthalene = ND
 Pyrene = 0.000906



LEGEND

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

PARAMETERS

SAMPLE LOCATION
 DATE SAMPLE COLLECTED
 APPROXIMATE DEPTH
 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

LILLI UNIT #4-17
 CLOSURE ASSESSMENT
 40.667300 / -103.893830
 NW¼ NW¼ SEC.17 T8N R58W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-14008
 REMEDIATION # 21641

DATE: 04/22/22

DRAWN BY: RTG

FIG. NO. 4



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 8000 W 44th Ave, Wheat Ridge, CO 80033
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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
LILLI UNIT #4-17
CLOSURE ASSESSMENT
40.667300 / -103.893830
NW1/4 NW1/4 SEC.17 T8N R58W 6PM
WELD COUNTY, COLORADO
API # 05-123-14008
REMEDICATION # 21641

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.667307 / -103.893830)	03/02/22	5	1.3	N
WH-SS-02 @ 5' (40.667297 / -103.893820)	03/02/22	5	2.3	N
WH-SS-03 @ 5' (40.667287 / -103.893830)	03/02/22	5	2.1	N
WH-SS-04 @ 5' (40.667297 / -103.893840)	03/02/22	5	2.0	N
WH-FS-01 @ 6' (40.667297 / -103.893830)	03/02/22	6	2.7	Y
FL-SS-01 @ 4' (40.668985 / -103.895616)	03/02/22	4	1.1	N
FL-SS-02 @ 4' (40.669212 / -103.896826)	03/02/22	4	1.0	N
(Y/N) = Yes or No ppm-v = parts per million by volume PID = photoionization detector				

TABLE 2
 SOIL ANALYTICAL RESULTS SUMMARY
 LILLI UNIT #4-17
 CLOSURE ASSESSMENT
 40.667300 / -103.893830
 NW1/4 NW1/4 SEC.17 T8N R58W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-14008
 REMEDIATION # 21641

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 @ 6' (40.667297 / -103.893830)	03/02/22	6	2.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.300	0.390	8.17	1.94
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 MDL and/or reporting limit. Note: Values presented in BOLD contained concentrations exceeding COGCC Table 915-1 Regulatory Limits																

TABLE 3
POLYCYCLIC AROMATIC HYDROCARBONS ANALYTICAL RESULTS SUMMARY
LILLI UNIT #4-17
CLOSURE ASSESSMENT
40.667300 / -103.893830
NW1/4 NW1/4 SEC.17 T8N R58W 6PM
WELD COUNTY, COLORADO
API # 05-123-14008
REMEDIAION # 21641

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 @ 6' (40.667297 / -103.893830)	03/02/22	6	2.7	0.000771	0.000761	<0.00067	<0.00067	<0.00067	<0.00067	0.000597	<0.00067	0.00294	<0.00067	<0.00067	0.000428	<0.00067	<0.00067	0.000906	
COGCC = Colorado Oil and Gas Conservation Commission				PID = Photoionization Detector															
mg/kg = milligrams per kilogram				ppm-v = parts per million by volume MDL - Minimum Detection Limit															
Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory MDL and/or reporting limit.																			
Note: Values presented in BOLD contained concentrations exceeding COGCC Table 915-1 Regulatory Limits																			



ATTACHMENT A

Photo Log

Lilli Unit #4-17
API # 05-123-14008
Remediation # 21641

Closure Assessment

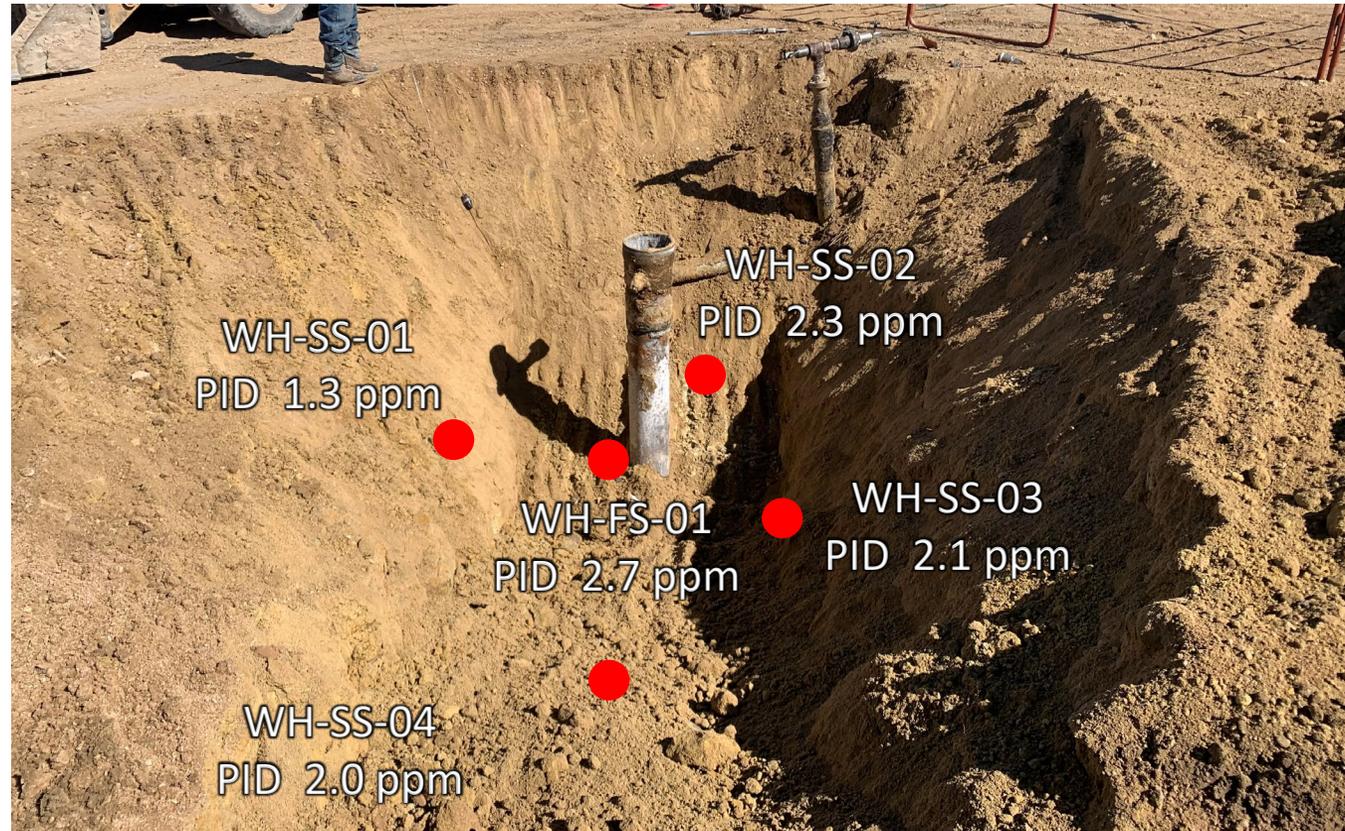
March 2022



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

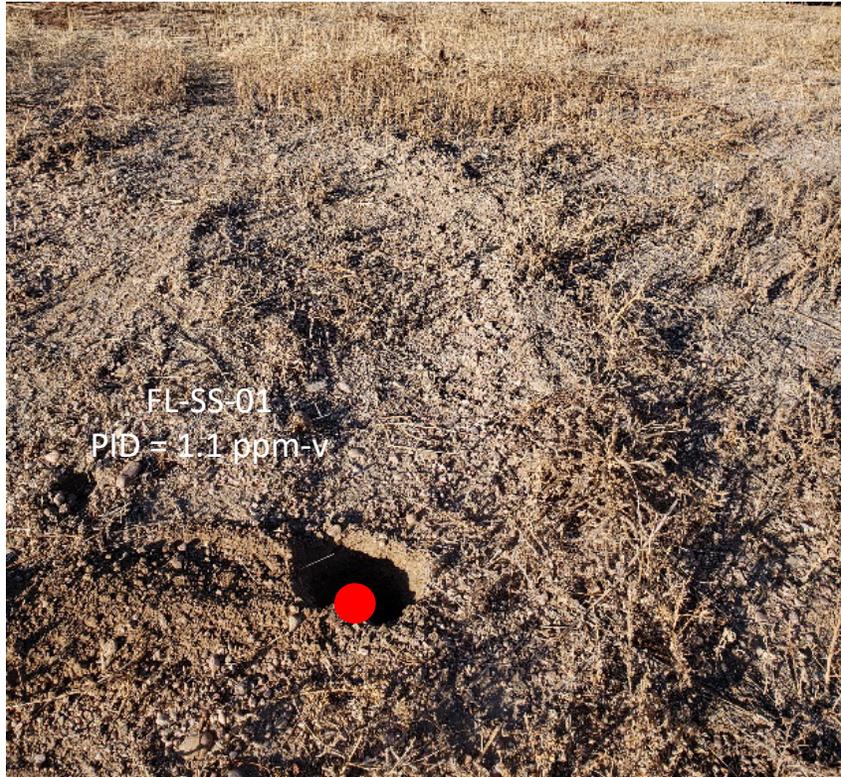


Wellhead Excavation – 03/02/22



Looking east
No petroleum hydrocarbon or odor observed

Flowline Assessment – 03/02/22



Flowline abandoned in place

Change of directions (per crew)
assessed

Samples collected via hand-
auger

No petroleum hydrocarbon
staining/odor observed
throughout assessment





ATTACHMENT B

Laboratory Analytical Report

March 11, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Lilli Unit #4-17

Project Number - [none]

Attached are your analytical results for Noble - Lilli Unit #4-17 received by Origins Laboratory, Inc. March 03, 2022. This project is associated with Origins project number Y203115-01.

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 - Lilli Unit #4-17

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y203115-01	Soil	March 2, 2022 12:29	03/03/2022 15:25

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 - Lilli Unit #4-17

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y203115 Client: Eagle
 Client Project ID: Lilli Unit 4-17

Checklist Completed by: JG Shipped Via: HD
 Date/Time completed: 3/4/22 (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, 2.2 °C 1 °C 1 °C (Describe)
 Thermometer ID: T003

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)				
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 (> ½ 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 analysis 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) JM

Date/Time Reviewed 3-7-22

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: [none]
 Project: Noble - Lilli Unit #4-17

WH-FS-01@6'
3/2/2022 12:29:00PM

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

Origins Laboratory, Inc.
Y203115-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.300		0.100	mg/L	1	B2C0702	03/07/2022	03/08/2022	
-------	-------	--	-------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2C0714	03/07/2022	03/10/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	92.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2C0418	03/04/2022	03/05/2022	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	91.0 %		70-130			"	"	"	
Surrogate: Toluene-d8	111 %		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 - Lilli Unit #4-17

WH-FS-01@6'
3/2/2022 12:29:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y203115-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	94.4 %		70-130			B2C04 18	03/04/2022	03/05/2022	
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Metals by Saturated Paste by EPA 6010

Calcium	2.46		0.499	meq/L	10	[CALC]	03/04/2022	03/07/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.45		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.000771	0.000364	0.00067	mg/Kg	1	L603269	03/07/2022	03/07/2022	
2-Methylnaphthalene	0.000761	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	0.000597	0.000585	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00294	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.000428	0.000286	0.00067	"	"	"	"	"	J

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 - Lilli Unit #4-17

WH-FS-01@6'
3/2/2022 12:29:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y203115-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L603269	03/07/2022	03/07/2022	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	0.000906	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	58.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	63.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	50.6 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.17			pH Units	1	B2C0416	03/04/2022	03/05/2022	
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SAR by 20B Saturated Paste

SAR	1.94			SAR	1	B2C0411	03/04/2022	03/07/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.390		0.00500	mmhos/cm	1	B2C0417	03/04/2022	03/05/2022	
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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 - Lilli Unit #4-17

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 B2C0418 - EPA 5030 (soil)

Blank (B2C0418-BLK1)

Prepared: 03/04/2022 Analyzed: 03/05/2022

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	0.11		"	0.125	89.6		70-130			
Surrogate: Toluene-d8	0.14		"	0.125	108		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.2		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 - Lilli Unit #4-17

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 B2C0418 - EPA 5030 (soil)

LCS (B2C0418-BS1)

Prepared: 03/04/2022 Analyzed: 03/05/2022

1,2,4-Trimethylbenzene	0.0971	0.00200	mg/kg	0.100		97.1	70-130			
1,3,5-Trimethylbenzene	0.0963	0.00200	"	0.100		96.3	70-130			
Benzene	0.0812	0.00200	"	0.100		81.2	70-130			
Ethylbenzene	0.0959	0.00200	"	0.100		95.9	70-130			
Naphthalene	0.0907	0.0100	"	0.100		90.7	70-130			
Toluene	0.0831	0.00200	"	0.100		83.1	70-130			
o-Xylene	0.0946	0.00200	"	0.100		94.6	70-130			
m,p-Xylene	0.189	0.00400	"	0.200		94.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	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 - Lilli Unit #4-17

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 B2C0418 - EPA 5030 (soil)

Matrix Spike (B2C0418-MS1)	Source: Y203100-01			Prepared: 03/04/2022 Analyzed: 03/05/2022						
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Benzene	0.0872	0.00200	"	0.100	ND	87.2	70-130			
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Naphthalene	0.101	0.0100	"	0.100	ND	101	70-130			
Toluene	0.0895	0.00200	"	0.100	ND	89.5	70-130			
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130			
m,p-Xylene	0.201	0.00400	"	0.200	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Lilli Unit #4-17

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 B2C0418 - EPA 5030 (soil)

Matrix Spike Dup (B2C0418-MSD1)	Source: Y203100-01			Prepared: 03/04/2022 Analyzed: 03/05/2022						
1,2,4-Trimethylbenzene	0.0990	0.00200	mg/kg	0.100	ND	99.0	70-130	2.24	20	
1,3,5-Trimethylbenzene	0.0970	0.00200	"	0.100	ND	97.0	70-130	4.85	20	
Benzene	0.0913	0.00200	"	0.100	ND	91.3	70-130	4.64	20	
Ethylbenzene	0.0966	0.00200	"	0.100	ND	96.6	70-130	4.63	20	
Naphthalene	0.102	0.0100	"	0.100	ND	102	70-130	0.732	20	
Toluene	0.0878	0.00200	"	0.100	ND	87.8	70-130	1.92	20	
o-Xylene	0.0962	0.00200	"	0.100	ND	96.2	70-130	4.79	20	
m,p-Xylene	0.192	0.00400	"	0.200	ND	96.1	70-130	4.73	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Lilli Unit #4-17

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 B2C0714 - EPA 3550B										
Blank (B2C0714-BLK1)										
					Prepared: 03/07/2022 Analyzed: 03/09/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	29		"	24.9		116	50-150			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Lilli Unit #4-17

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 B2C0714 - EPA 3550B

LCS (B2C0714-BS1)

Prepared: 03/07/2022 Analyzed: 03/09/2022

Diesel (C10-C28)	1160	50.0	mg/kg	1000		116	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	55		"	49.8		110	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 - Lilli Unit #4-17

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 B2C0714 - EPA 3550B

Matrix Spike (B2C0714-MS1)	Source: Y203113-02			Prepared: 03/07/2022 Analyzed: 03/09/2022						
Diesel (C10-C28)	1200	50.0	mg/kg	1000	ND	120	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	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 - Lilli Unit #4-17

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 B2C0714 - EPA 3550B

Matrix Spike Dup (B2C0714-MSD1)	Source: Y203113-02			Prepared: 03/07/2022 Analyzed: 03/09/2022						
Diesel (C10-C28)	1230	50.0	mg/kg	1000	ND	123	70-130	2.64	35	
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	70-130	6.35	35	
<i>Surrogate: o-Terphenyl</i>	56		"	49.8		112	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 - Lilli Unit #4-17

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 L603269 - 3550B

MSD (L 86094-MSD-L603269)		Source: 86094			Prepared: 03/07/2022 Analyzed: 03/07/2022					
Benzo(a)pyrene	0.121	0.000468	mg/Kg	0.164	<0.000468	73.7	30-130	3.3	30	
Benzo(a)anthracene	0.106	0.000493	"	0.164	<0.000493	64.6	30-130	1.9	30	
Anthracene	0.101	0.000334	"	0.164	<0.000334	61.5	30-130	4.7	30	
Acenaphthene	0.0834	0.000304	"	0.164	<0.000304	50.8	30-130	1.4	30	
2-Methylnaphthalene	0.0899	0.000645	"	0.164	<0.000645	54.8	30-130	4.3	30	
1-Methylnaphthalene	0.097	0.000364	"	0.164	<0.000364	59.1	30-130	4.2	30	
Benzo(b)fluoranthene	0.0977	0.000585	"	0.164	<0.000585	59.5	30-130	10.3	30	
Fluorene	0.0912	0.000286	"	0.164	<0.000286	55.6	30-130	0.1	30	
Pyrene	0.11	0.000643	"	0.164	<0.000643	67	30-130	4.6	30	
Benzo(k)fluoranthene	0.107	0.000437	"	0.164	<0.000437	65.2	30-130	7.1	30	
Naphthalene	0.0956	0.000484	"	0.164	<0.000484	58.2	30-130	3.8	30	
Indeno(1,2,3-cd)pyrene	0.084	0.000627	"	0.164	<0.000627	51.2	30-130	2.5	30	
Dibenz(a,h)anthracene	0.118	0.000614	"	0.164	<0.000614	71.9	30-130	3.4	30	
Fluoranthene	0.109	0.000394	"	0.164	<0.000394	66.4	30-130	3.7	30	
Chrysene	0.109	0.000624	"	0.164	<0.000624	66.4	30-130	0.9	30	
Surrogate: 4-Terphenyl-d14	82		"	0.329	279	82	33-122			
Surrogate: 2-Fluorobiphenyl	66.5		"	0.329	217	66.5	33-115			
Surrogate: Nitrobenzene-d5	55.9		"	0.329	194	55.9	29-110			

MS (L 86094-MS-L603269)		Source: 86094			Prepared: 03/07/2022 Analyzed: 03/07/2022					
Benzo(b)fluoranthene	0.0881	0.000585	mg/Kg	0.166	<0.000585	53	30-130			
Benzo(k)fluoranthene	0.0996	0.000437	"	0.166	<0.000437	60	30-130			
Naphthalene	0.092	0.000484	"	0.166	<0.000484	55.4	30-130			
Indeno(1,2,3-cd)pyrene	0.0862	0.000627	"	0.166	<0.000627	51.9	30-130			
Fluorene	0.0911	0.000286	"	0.166	<0.000286	54.8	30-130			
Fluoranthene	0.105	0.000394	"	0.166	<0.000394	63.2	30-130			
Dibenz(a,h)anthracene	0.114	0.000614	"	0.166	<0.000614	68.6	30-130			

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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 - Lilli Unit #4-17

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 L603269 - 3550B

MS (L 86094-MS-L603269)		Source: 86094			Prepared: 03/07/2022 Analyzed: 03/07/2022					
Pyrene	0.105	0.000643	mg/Kg	0.166	<0.000643	63.2	30-130			
Benzo(a)pyrene	0.117	0.000468	"	0.166	<0.000468	70.4	30-130			
Benzo(a)anthracene	0.104	0.000493	"	0.166	<0.000493	62.6	30-130			
Anthracene	0.0963	0.000334	"	0.166	<0.000334	58	30-130			
Acenaphthene	0.0822	0.000304	"	0.166	<0.000304	49.5	30-130			
2-Methylnaphthalene	0.0861	0.000645	"	0.166	<0.000645	51.8	30-130			
Chrysene	0.108	0.000624	"	0.166	<0.000624	65	30-130			
1-Methylnaphthalene	0.093	0.000364	"	0.166	<0.000364	56	30-130			
Surrogate: Nitrobenzene-d5	54.9		"	0.331	194	54.9	29-110			
Surrogate: 2-Fluorobiphenyl	61.9		"	0.331	217	61.9	33-115			
Surrogate: 4-Terphenyl-d14	79.7		"	0.331	279	79.7	33-122			

LCS (LCS-L603269)		Prepared: 03/07/2022 Analyzed: 03/07/2022								
Dibenz(a,h)anthracene	0.119	0.000614	mg/Kg	0.167		71.2	30-130			
Pyrene	0.115	0.000643	"	0.167		68.8	30-130			
Fluoranthene	0.116	0.000394	"	0.167		69.4	30-130			
Fluorene	0.101	0.000286	"	0.167		60.4	30-130			
Indeno(1,2,3-cd)pyrene	0.0854	0.000627	"	0.167		51.1	30-130			
Acenaphthene	0.0896	0.000304	"	0.167		53.6	30-130			
Chrysene	0.118	0.000624	"	0.167		70.6	30-130			
Naphthalene	0.103	0.000484	"	0.167		61.6	30-130			
Benzo(b)fluoranthene	0.0989	0.000585	"	0.167		59.2	30-130			
Benzo(a)pyrene	0.129	0.000468	"	0.167		77.2	30-130			
Anthracene	0.104	0.000334	"	0.167		62.2	30-130			
2-Methylnaphthalene	0.0971	0.000645	"	0.167		58.1	30-130			
1-Methylnaphthalene	0.105	0.000364	"	0.167		62.8	30-130			
Benzo(a)anthracene	0.112	0.000493	"	0.167		67	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 - Lilli Unit #4-17

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 L603269 - 3550B

LCS (LCS-L603269)

Prepared: 03/07/2022 Analyzed: 03/07/2022

Benzo(k)fluoranthene	0.103	0.000437	mg/Kg	0.167		61.6	30-130			
Surrogate: Nitrobenzene-d5	61.8		"	0.333		61.8	29-110			
Surrogate: 4-Terphenyl-d14	87		"	0.333		87	33-122			
Surrogate: 2-Fluorobiphenyl	72.3		"	0.333		72.3	33-115			

LRB (LRB-L603269)

Prepared: 03/07/2022 Analyzed: 03/07/2022

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	0.00067	"				-			
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	0.00067	"				-			
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	85.8		"	0.333		85.8	33-122			
Surrogate: 2-Fluorobiphenyl	69.6		"	0.333		69.6	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.

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Lilli Unit #4-17

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.

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