

Wellhead Closure Checklist

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

Additional Attachments (optional)	Pit Closure	Tank Battery Closure	Flowline Closure 11-8-21	Partially Buried Vault Closure
-----------------------------------	-------------	----------------------	-----------------------------	--------------------------------

Site Name & COGCC Facility Number: MSR Tim Gitten #6-9	Date: 10-5-21	Remediation Project #: 19058
Associated Wells: 1 05-123-18003	Age of Site: years	Number of Photos Attached: 1
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.242435 / -104.558383		Estimated Facility Size (acres):
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Good Condition		

USCS Soil Type: CL	Estimated Depth to Groundwater: 720'
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	05-123-18003				
Age	years				
Condition of surface around wellhead	Good - Per Crew				
PID Readings	N/A - Excavated Upon arrival				
Condition of subsurface	Good - no staining, no odor				
PID Readings	16.4	22.8	4.7	9.4	25.3
Sample taken? Location Sample	WH-SS-01 e 5'	WH-SS-02 e 5'	WH-SS-03 e 5'	WH-SS-04 e 5'	WH-FB-01 e 6'
Photo Number(s)	EAGLE provided 1				

Other observations regarding wellheads:

Summary	
Was impacted soil identified? <input checked="" type="radio"/> No	Yes - less than 10 cubic yards Yes - more than 10 cubic yards
Total number of samples field screened: 5	Total number of samples collected: 5
Highest PID Reading: 25.3	Total number of samples submitted to lab for analysis: 1
If more than 10 cubic yards of impacted soil were observed:	
Vertical extent:	Estimated spill volume:
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:	

Flowline Closure Checklist

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

Additional Attachments:	Tank Battery Closure —	Wellhead Closure 10-5-21	Pit Closure —	Partially Buried Vault Closure —
Site Name & COGCC Facility Number: HSE Tim Cithen #6-9		Date: 11-8-21		Remediation Project #: 19058
Associated Wells: 1 05-123-18003		Age of Site: Years		Number of Photos Attached: 3

Starting point: (GPS coordinates and descriptions)
At Well: 40.242441 / -104.558442

End point: (GPS coordinates and descriptions)
At Sep: 40.239673 / -104.558420

USCS Soil Type: CL 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

Flowlines

Flowline type	O, G, W							
Depth	~4'							
Age	Years							
Length	~1,020'							
Construction Material	Steel							
Were flowlines pulled?	Yes							
Visual Integrity of lines	Good							
Visual impacts if trenched	N/A							
PID Readings if trenched	N/A							
Sample taken? Location/Sample ID#	3 cut points along flowline assessed for staining/odor							
Photo Number(s)	See photo log							

Other observations regarding on location flowlines:
Cut points / bellholes assessed for staining or odor - none observed

Summary

Was impacted soil identified?		Yes - less than 10 cubic yards		Yes - more than 10 cubic yards	
No					
Total number of samples field screened: 3			Total number of samples collected: 6		
Highest PID Reading: N/A			Total number of samples submitted to lab for analysis: 6		
If more than 10 cubic yards of impacted soil were observed:					
Vertical extent:			Estimated spill volume:		
Lateral extent: N/A			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		
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:					



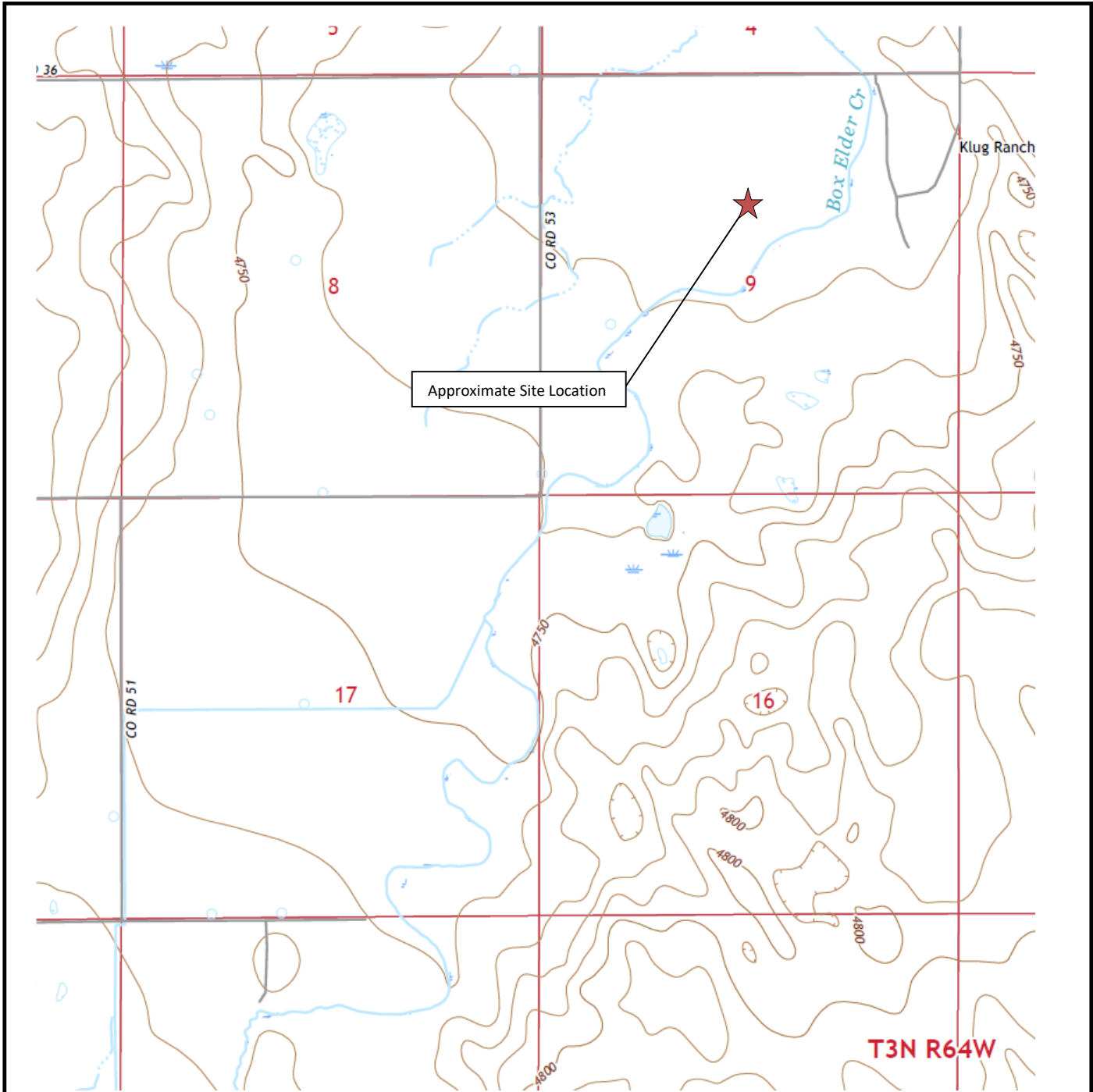
FIGURES

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

HSR Tim Gittlein #6-9
 Closure Assessment
 40.242435 / -104.558383
 SE¼ NW¼ SEC.9 T3N R64W 6PM
 Weld County, Colorado
 API # 05-123-18003
 Remediation # 19058



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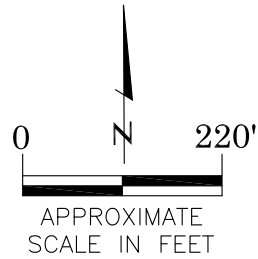
Source: USGS 7.5 Minute Topographic
 Klug Ranch, CO Quadrangle 2019

Figure 1



LEGEND

- FORMER HSR TIM GITTLEIN #6-9 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- ASSOCIATED FLOWLINE (REMOVED)
- APPROXIMATE BELLHOLE/CUT-POINT LOCATIONS



AERIAL SITE LOCATION MAP
 HSR TIM GITTLEIN #6-9
 CLOSURE ASSESSMENT
 40.242435 / -104.558383
 SE¼ NW¼ SEC.9 T3N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-18003
 REMEDIATION # 19058

DATE: 01/10/22	
FIG. NO. 2	DRAWN BY: AMN

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



WH-FS-01@6'
 10/05/21
 6'
 B = <0.00200
 T = <0.00200
 E = <0.00200
 X = <0.00200
 G = 0.845
 D = <25.0
 R = <100
 1,2,4-TMB = <0.00200
 1,3,5-TMB = 0.00512
 Brn = 0.747
 EC = 3.38
 SAR = 2.27
 pH = 7.61

LEGEND

- APPROXIMATE 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)

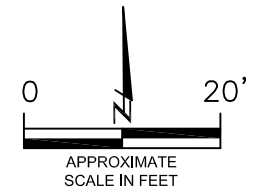
mg/kg = MILLIGRAMS PER KILOGRAM
 mg/L = MILLIGRAMS PER LITER
 mmhos/cm = MILLIMHOS PER CENTIMETER

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS – GASOLINE RANGE ORGANICS

TPH-DRO = TOTAL PETROLEUM HYDROCARBONS – DIESEL RANGE ORGANICS

TPH-RRO = TOTAL PETROLEUM HYDROCARBONS – RESIDUAL RANGE ORGANICS

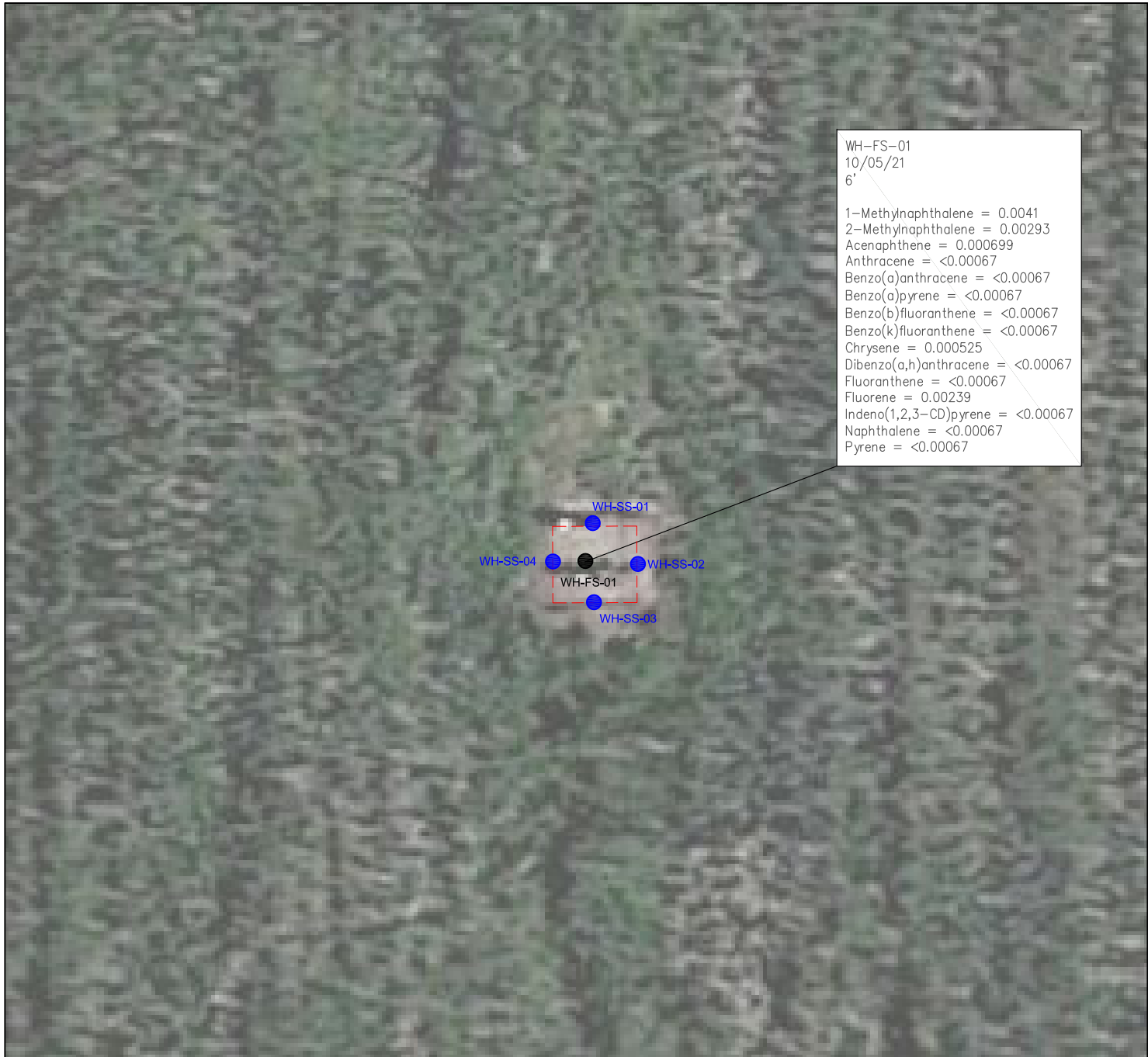
NOTE: VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS



SOIL ANALYTICAL MAP
 HSR TIM GITTLEIN #6-9
 CLOSURE ASSESSMENT
 40.242435/ -104.558383
 SE¼ NW¼ SEC.9 T3N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-18003
 REMEDIATION # 19058

DATE:
 01/10/22
 DRAWN BY:
 AMN
 FIG.
 NO. 3

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 Ph: 303-433-0479 • F: 303-325-5449



WH-FS-01
 10/05/21
 6'

 1-Methylnaphthalene = 0.0041
 2-Methylnaphthalene = 0.00293
 Acenaphthene = 0.000699
 Anthracene = <0.00067
 Benzo(a)anthracene = <0.00067
 Benzo(a)pyrene = <0.00067
 Benzo(b)fluoranthene = <0.00067
 Benzo(k)fluoranthene = <0.00067
 Chrysene = 0.000525
 Dibenzo(a,h)anthracene = <0.00067
 Fluoranthene = <0.00067
 Fluorene = 0.00239
 Indeno(1,2,3-CD)pyrene = <0.00067
 Naphthalene = <0.00067
 Pyrene = <0.00067

LEGEND

- APPROXIMATE 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)

NOTE:
 CONCENTRATIONS PRESENTED IN mg/kg

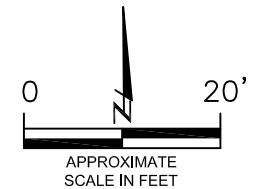
mg/kg = MILLIGRAMS PER KILOGRAM

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

VALUES PRESENTED IN **BOLD** TYPEFACE CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 REGULATORY LIMITS FOR THAT COMPOUND

*VALUES EXCEED GROUNDWATER PROTECTION SCREENING LIMITS

COGCC – COLORADO OIL AND GAS CONSERVATION COMMISSION



POLYCYCLIC AROMATIC HYDROCARBONS MAP

HSR TIM GITTLEIN #3-9
 CLOSURE ASSESSMENT
 40.245450/ -104.558390
 NE¼ NW¼ SEC.9 T3N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-18000
 REMEDIATION # 19056

DATE:
 01/10/22
 DRAWN BY:
 AMN
 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
HSR TIM GITTLEIN #6-9
CLOSURE ASSESSMENT
40.242435 / -104.558383
SE1/4 NW1/4 SEC.9 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-18003
REMEDICATION # 19058

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.242447 / -104.558420)	10/05/21	5	16.4	N
WH-SS-02 @ 5' (40.242431 / -104.558401)	10/05/21	5	22.8	N
WH-SS-03 @ 5' (40.242416 / -104.558424)	10/05/21	5	4.7	N
WH-SS-04 @ 5' (40.242432 / -104.558452)	10/05/21	5	9.4	N
WH-FS-01 @ 6' (40.242430 / -104.558420)	10/05/21	6	25.3	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = photoionization detector				

TABLE 2
 SOIL ANALYTICAL RESULTS SUMMARY
 HSR TIM GITTLEIN #6-9
 CLOSURE ASSESSMENT
 40.242435 / -104.558383
 SE1/4 NW1/4 SEC.9 T3N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-18003
 REMEDIATION # 19058

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' (40.242430 / -104.558420)	10/05/21	6	25.3	<0.00200	<0.00200	<0.00200	<0.00200	0.845	<25.0	<100	<0.00200	0.00512	0.747	3.38	7.61	2.27

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

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

MDL = Minimum Detection Limits

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
PAH ANALYTICAL RESULTS SUMMARY
HSR TIM GITTLEIN #6-9
CLOSURE ASSESSMENT
40.242435 / -104.558383
SE1/4 NW1/4 SEC.9 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-18003
REMEDIATION # 19058

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" (40.242430 / -104.558420)	10/05/21	6	25.3	0.0041	0.00293	0.000699	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000525	<0.00067	<0.00067	0.00239	<0.00067	<0.00067	<0.00067
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

HSR Tim Gittlein #6-9

API # 05-123-18003

Remediation # 19058

Closure Assessment

October-November 2021



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Ph: 303-433-0479 • F: 303-325-5449



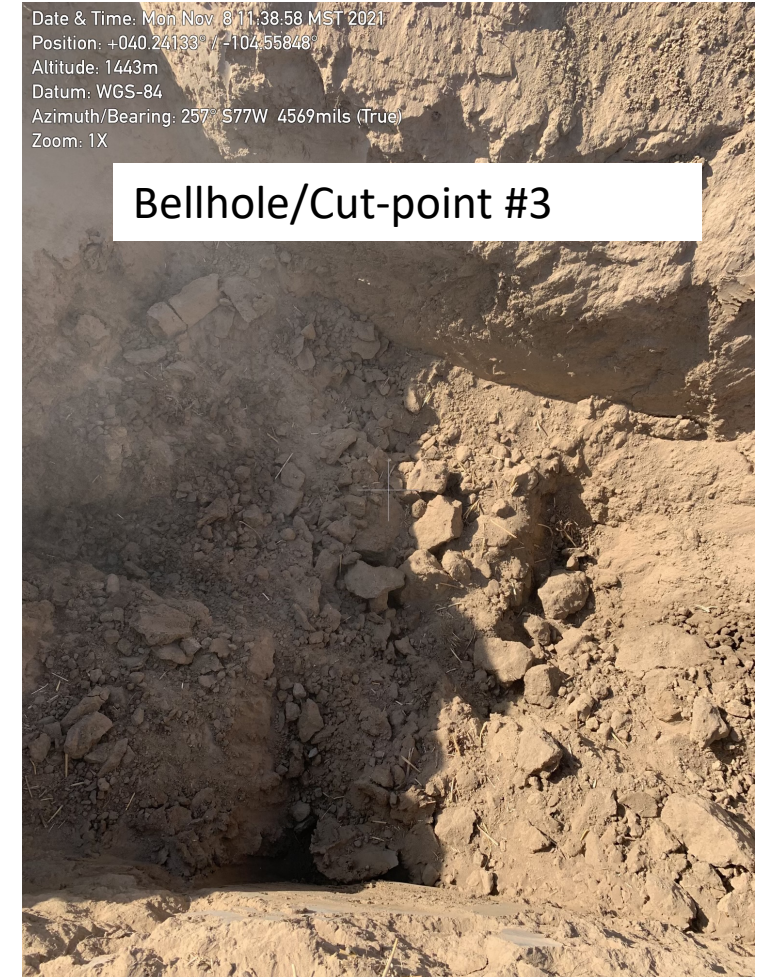
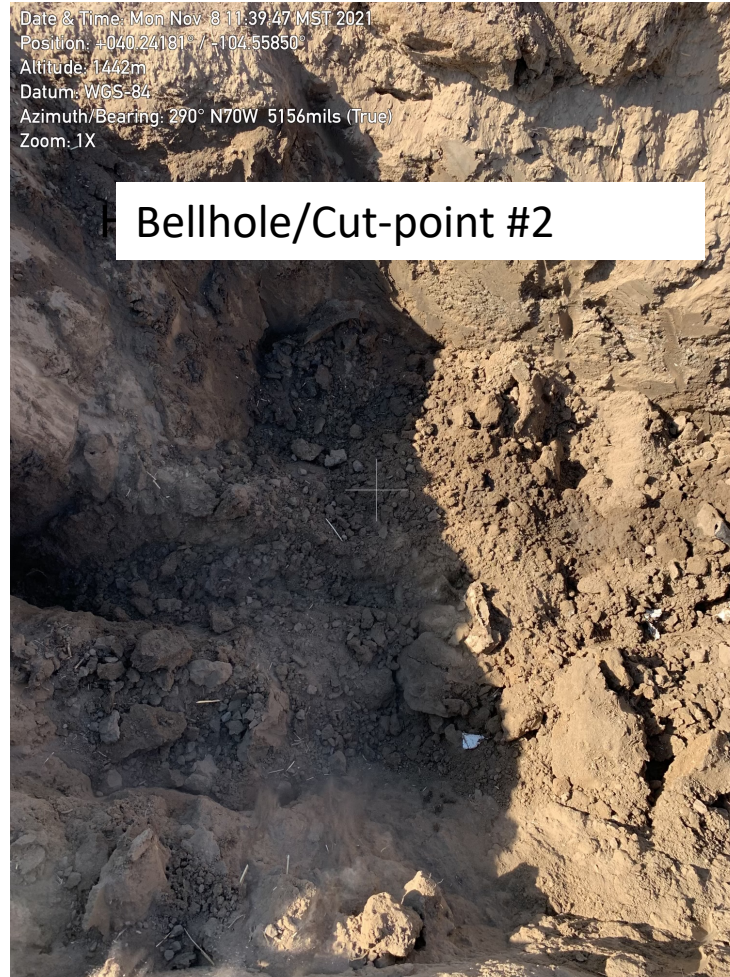
Wellhead Excavation – 10/05/21



Looking south

No petroleum hydrocarbon staining
or odor observed

Flowline Removal – 11/08/21



Flowline removal disturbance points – see aerial for position along flowline
No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Report



October 14, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - HSR-Tim Gittlein 6-9

Project Number - [none]

Attached are your analytical results for Noble - HSR-Tim Gittlein 6-9 received by Origins Laboratory, Inc. October 05, 2021. This project is associated with Origins project number Y110101-01.

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 - HSR-Tim Gittlein 6-9

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y110101-01	Soil	October 5, 2021 9:38	10/05/2021 14:31

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 - HSR-Tim Gittlein 6-9

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y110101

Client: Eagle

Client Project ID: HSR Tim Gittlein 6-9

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 10/6/21

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 3.1 °C _____ / _____ °C _____ / _____ °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)		<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): JM

Date/Time Reviewed: 10-7-21

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 - HSR-Tim Gittlein 6-9

WH-FS-01@6'

10/5/2021 9:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y110101-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.747		0.197	mg/L	1	B1J0632	10/06/2021	10/07/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B1J0615	10/06/2021	10/07/2021	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	59.1 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

GBTEX+TMBs

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B1J0612	10/06/2021	10/12/2021	U
1,3,5-Trimethylbenzene	0.00512		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.845		0.200	"	"	"	"	"	
Xylenes, total	ND		0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.5 %		70-130			"	"	"	
Surrogate: Toluene-d8	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: [none]
 Project: Noble - HSR-Tim Gittlein 6-9

WH-FS-01@6'
 10/5/2021 9:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y110101-01 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	95.9 %		70-130			B1J06 12	10/06/2021	10/12/2021	
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Metals by Saturated Paste

Calcium	26.7		0.499	meq/L	10	[CALC]	10/07/2021	10/12/2021	
Magnesium	11.0		0.823	"	"	"	"	"	
Sodium	9.85		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0041	0.00033	0.00067	mg/Kg	1	L578039	10/07/2021	10/07/2021	
2-Methylnaphthalene	0.00293	0.00039	0.00067	"	"	"	"	"	
Acenaphthene	0.000699	0.0003	0.00067	"	"	"	"	"	
Anthracene	ND	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00014	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00021	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"	
Chrysene	0.000525	0.00027	0.00067	"	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"	
Fluorene	0.00239	0.00029	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	"	"	"	"	"	

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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 - HSR-Tim Gittlein 6-9

WH-FS-01@6'

10/5/2021 9:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y110101-01 (Soil)

PAH by 8270D SIM

Naphthalene	ND	0.000467	0.00067	mg/Kg	1	L578039	10/07/2021	10/07/2021	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	78 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	89.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	64.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.61			pH Units	1	B1J0806	10/08/2021	10/08/2021	
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SAR by 20B Saturated Paste

SAR	2.27			SAR	1	B1J0712	10/07/2021	10/12/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.38		0.00500	mmhos/cm	1	B1J0803	10/08/2021	10/08/2021	
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - HSR-Tim Gittlein 6-9

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 B1J0612 - EPA 5030 (soil)

Blank (B1J0612-BLK1)

Prepared: 10/06/2021 Analyzed: 10/11/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	90.3		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	94.0		70-130			

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Martin C Eckert III
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 Project: Noble - HSR-Tim Gittlein 6-9

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 B1J0612 - EPA 5030 (soil)

LCS (B1J0612-BS1)

Prepared: 10/06/2021 Analyzed: 10/11/2021

1,2,4-Trimethylbenzene	0.0493	0.00200	mg/kg	0.0500		98.7	70-130			
Naphthalene	0.0520	0.0100	"	0.0500		104	70-130			
1,3,5-Trimethylbenzene	0.0469	0.00200	"	0.0500		93.8	70-130			
Benzene	0.0432	0.00200	"	0.0500		86.3	70-130			
Ethylbenzene	0.0460	0.00200	"	0.0500		92.1	70-130			
m,p-Xylene	0.0953	0.00400	"	0.100		95.3	70-130			
o-Xylene	0.0478	0.00200	"	0.0500		95.6	70-130			
Toluene	0.0480	0.00200	"	0.0500		96.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - HSR-Tim Gittlein 6-9

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 B1J0612 - EPA 5030 (soil)

Matrix Spike (B1J0612-MS1)	Source: Y110096-01			Prepared: 10/06/2021 Analyzed: 10/11/2021						
1,2,4-Trimethylbenzene	0.00744	0.00200	mg/kg	0.0500	ND	14.9	70-130			QM-07
Naphthalene	0.00718	0.0100	"	0.0500	ND	14.4	70-130			QM-07, U
1,3,5-Trimethylbenzene	0.0373	0.00200	"	0.0500	ND	74.7	70-130			
Benzene	0.0403	0.00200	"	0.0500	ND	80.5	70-130			
Ethylbenzene	0.0377	0.00200	"	0.0500	ND	75.4	70-130			
m,p-Xylene	0.0434	0.00400	"	0.100	ND	43.4	70-130			QM-07
o-Xylene	0.0391	0.00200	"	0.0500	ND	78.2	70-130			
Toluene	0.0400	0.00200	"	0.0500	ND	80.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.6	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1J0612 - EPA 5030 (soil)

Matrix Spike Dup (B1J0612-MSD1)	Source: Y110096-01			Prepared: 10/06/2021 Analyzed: 10/11/2021						
1,2,4-Trimethylbenzene	0.0114	0.00200	mg/kg	0.0500	ND	22.8	70-130	42.2	20	QM-07, QR-03
Naphthalene	0.00824	0.0100	"	0.0500	ND	16.5	70-130	13.7	20	QM-07, U
1,3,5-Trimethylbenzene	0.0400	0.00200	"	0.0500	ND	80.1	70-130	6.98	20	
Benzene	0.0430	0.00200	"	0.0500	ND	86.0	70-130	6.54	20	
Ethylbenzene	0.0405	0.00200	"	0.0500	ND	81.0	70-130	7.16	20	
m,p-Xylene	0.0529	0.00400	"	0.100	ND	52.9	70-130	19.8	20	QM-07
o-Xylene	0.0418	0.00200	"	0.0500	ND	83.6	70-130	6.62	20	
Toluene	0.0430	0.00200	"	0.0500	ND	86.0	70-130	7.28	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.7	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - HSR-Tim Gittlein 6-9

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 B1J0615 - EPA 3550B

LCS (B1J0615-BS1)

Prepared: 10/06/2021 Analyzed: 10/07/2021

Diesel (C10-C28)	718	50.0	mg/kg	1000		71.8	70-130			
Residual Range Organics (C28-C40)	825	200	"	1000		82.5	70-130			
Surrogate: o-Terphenyl	33		"	50.0		66.4	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - HSR-Tim Gittlein 6-9

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 B1J0615 - EPA 3550B

Matrix Spike (B1J0615-MS1)	Source: Y110096-11			Prepared: 10/06/2021 Analyzed: 10/07/2021						
Diesel (C10-C28)	605	50.0	mg/kg	1000	ND	60.5	70-130			QM-07
Residual Range Organics (C28-C40)	717	200	"	1000	ND	71.7	70-130			
Surrogate: o-Terphenyl	31		"	50.0		61.5	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - HSR-Tim Gittlein 6-9

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 B1J0615 - EPA 3550B

Matrix Spike Dup (B1J0615-MSD1)	Source: Y110096-11		Prepared: 10/06/2021 Analyzed: 10/07/2021							
Diesel (C10-C28)	634	50.0	mg/kg	1000	ND	63.4	70-130	4.73	35	QM-07
Residual Range Organics (C28-C40)	714	200	"	1000	ND	71.4	70-130	0.444	35	
Surrogate: o-Terphenyl	33		"	50.0		65.6	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - HSR-Tim Gittlein 6-9

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1J0803 - NO PREP

Blank (B1J0803-BLK1)

Prepared: 10/08/2021 Analyzed: 10/08/2021

Specific Conductance (EC) 0.00160 0.00500 mmhos/cm

Duplicate (B1J0803-DUP1)

Source: Y110115-02

Prepared: 10/08/2021 Analyzed: 10/08/2021

Specific Conductance (EC) 1.39 0.00500 mmhos/cm 1.30 6.70 25

Batch B1J0806 - NO PREP

Duplicate (B1J0806-DUP1)

Source: Y110115-02

Prepared: 10/08/2021 Analyzed: 10/08/2021

pH 7.33 pH Units 7.73 5.31 25

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - HSR-Tim Gittlein 6-9

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 L578039 - 3550B

MSD (L 97939-MSD-L578039)		Source: 97939			Prepared: 10/07/2021 Analyzed: 10/07/2021					
1-Methylnaphthalene	0.116	0.00033	mg/Kg	0.166	<0.000330	69.8	30-130	7.1	30	
Benzo(b)fluoranthene	0.0869	0.00021	"	0.166	0.00757	47.7	30-130	3.6	30	
Benzo(a)pyrene	0.157	0.00014	"	0.166	0.0124	87.1	30-130	5.2	30	
Benzo(a)anthracene	0.126	0.00041	"	0.166	0.00753	71.3	30-130	8.2	30	
Anthracene	0.122	0.00033	"	0.166	0.00051	73.4	30-130	7.6	30	
Acenaphthene	0.12	0.0003	"	0.166	<0.000300	72.2	30-130	6	30	
Dibenz(a,h)anthracene	0.175	0.00036	"	0.166	0.000918	105	30-130	25.8	30	
2-Methylnaphthalene	0.112	0.00039	"	0.166	0.000684	67	30-130	7.4	30	
Benzo(k)fluoranthene	0.0958	0.00013	"	0.166	0.00258	56.1	30-130	4.9	30	
Chrysene	0.137	0.00027	"	0.166	0.0101	76.4	30-130	9.9	30	
Pyrene	0.125	0.00059	"	0.166	0.0159	65.7	30-130	8.3	30	
Naphthalene	0.11	0.000467	"	0.166	<0.000467	66.2	30-130	7.5	30	
Indeno(1,2,3-cd)pyrene	0.157	0.00029	"	0.166	0.00707	90.3	30-130	17.4	30	
Fluorene	0.123	0.00029	"	0.166	<0.000290	74	30-130	6.7	30	
Fluoranthene	0.128	0.00039	"	0.166	0.00979	71.2	30-130	9.8	30	
Surrogate: 4-Terphenyl-d14	95.7		"	0.332	292	95.7	33-122			
Surrogate: 2-Fluorobiphenyl	96.6		"	0.332	296	96.6	33-115			
Surrogate: Nitrobenzene-d5	75		"	0.332	234	75	29-110			

MS (L 97939-MS-L578039)		Source: 97939			Prepared: 10/07/2021 Analyzed: 10/07/2021					
Benzo(k)fluoranthene	0.0912	0.00013	mg/Kg	0.165	0.00258	53.7	30-130			
Chrysene	0.124	0.00027	"	0.165	0.0101	69	30-130			
Naphthalene	0.102	0.000467	"	0.165	<0.000467	61.8	30-130			
Indeno(1,2,3-cd)pyrene	0.187	0.00029	"	0.165	0.00707	109	30-130			
Fluorene	0.115	0.00029	"	0.165	<0.000290	69.6	30-130			
Fluoranthene	0.116	0.00039	"	0.165	0.00979	64.3	30-130			
Pyrene	0.115	0.00059	"	0.165	0.0159	60	30-130			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - HSR-Tim Gittlein 6-9

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 L578039 - 3550B

MS (L 97939-MS-L578039)		Source: 97939			Prepared: 10/07/2021 Analyzed: 10/07/2021					
2-Methylnaphthalene	0.104	0.00039	mg/Kg	0.165	0.000684	62.6	30-130			
Benzo(b)fluoranthene	0.0901	0.00021	"	0.165	0.00757	50	30-130			
Benzo(a)pyrene	0.149	0.00014	"	0.165	0.0124	82.7	30-130			
Benzo(a)anthracene	0.116	0.00041	"	0.165	0.00753	65.7	30-130			
Anthracene	0.113	0.00033	"	0.165	0.00051	68.4	30-130			
Acenaphthene	0.113	0.0003	"	0.165	<0.000300	68.4	30-130			
1-Methylnaphthalene	0.108	0.00033	"	0.165	<0.000330	65.4	30-130			
Dibenz(a,h)anthracene	0.227	0.00036	"	0.165	0.000918	137	30-130			*
Surrogate: Nitrobenzene-d5	70.3		"	0.33	234	70.3	29-110			
Surrogate: 4-Terphenyl-d14	90.3		"	0.33	292	90.3	33-122			
Surrogate: 2-Fluorobiphenyl	90		"	0.33	296	90	33-115			

LCS (LCS-L578039)		Prepared: 10/07/2021 Analyzed: 10/07/2021								
Dibenz(a,h)anthracene	0.149	0.00036	mg/Kg	0.167		89.2	30-130			
Fluoranthene	0.126	0.00039	"	0.167		75.4	30-130			
Fluorene	0.115	0.00029	"	0.167		68.8	30-130			
Indeno(1,2,3-cd)pyrene	0.124	0.00029	"	0.167		74.2	30-130			
Naphthalene	0.103	0.000467	"	0.167		61.6	30-130			
Pyrene	0.124	0.00059	"	0.167		74.2	30-130			
Anthracene	0.117	0.00033	"	0.167		70	30-130			
Chrysene	0.124	0.00027	"	0.167		74.2	30-130			
Benzo(b)fluoranthene	0.105	0.00021	"	0.167		62.8	30-130			
Benzo(a)anthracene	0.121	0.00041	"	0.167		72.4	30-130			
Acenaphthene	0.112	0.0003	"	0.167		67	30-130			
2-Methylnaphthalene	0.105	0.00039	"	0.167		62.8	30-130			
1-Methylnaphthalene	0.108	0.00033	"	0.167		64.6	30-130			
Benzo(a)pyrene	0.148	0.00014	"	0.167		88.6	30-130			

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: [none]
 Project: Noble - HSR-Tim Gittlein 6-9

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 L578039 - 3550B

LCS (LCS-L578039)

Prepared: 10/07/2021 Analyzed: 10/07/2021

Benzo(k)fluoranthene	0.095	0.00013	mg/Kg	0.167		56.8	30-130			
Surrogate: Nitrobenzene-d5	78		"	0.333		78	29-110			
Surrogate: 4-Terphenyl-d14	108		"	0.333		108	33-122			
Surrogate: 2-Fluorobiphenyl	93.6		"	0.333		93.6	33-115			

LRB (LRB-L578039)

Prepared: 10/07/2021 Analyzed: 10/07/2021

Pyrene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	70.2		"	0.333		70.2	29-110			
Surrogate: 4-Terphenyl-d14	95.7		"	0.333		95.7	33-122			
Surrogate: 2-Fluorobiphenyl	86.7		"	0.333		86.7	33-115			

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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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Project Number: [none]
Project: Noble - HSR-Tim Gittlein 6-9

Notes and Definitions

- U Sample is Non-Detect.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- J Estimated Value. Analyte below reported quantitation limit.
- * QC Failure
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

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