

Wellhead Closure Checklist

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

Additional attachments (optional):	Pit Closure	Tank Battery Closure	Flowline Closure 4-28-22	Partially Buried Vault Closure
Site Name & COGCC Facility Number: GUTTERSEN D 209-09		Date: 2-1-22		Remediation Project #: 20278
Associated Wells: 05-123-26910		Age of Site: YEARS		Number of Photos Attached: 1
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.238617, -104.548537				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: ~8-10'		
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	05-123-26910			
Age	YEARS			
Condition of surface around wellhead	GOOD - PER CREW			
PID Readings	N/A - EXCAVATED UPON ARRIVAL			
Condition of subsurface (excluding casing)	GOOD - NO STAINING OR ODOR			
PID Readings	2.1	2.1	3.0	1.1
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04
Photo Number(s)	SEE PHOTOS			
Other observations regarding wellheads: WELL CASINGS CUT/CAPPED FOLLOWING ASSESSMENT.				
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: 3.1		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	2-1-22	Pit Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: GUTTERSEN D #09-09		Date: 4-28-22						Remediation Project #: 20278
Associated Wells: 05-123-26910		Age of Site: YEARS						Number of Photos Attached: 7
Starting point: (GPS coordinates and descriptions) 40.238694, -104.548485 AT WELL								
End point: (GPS coordinates and descriptions) 40.241080, -104.548496 AT SEPARATOR								
USCS Soil Type: SW				Estimated Depth to Groundwater: ~8-10'				
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	0. C.W.							
Depth	~3'							
Age	YEARS							
Length	~900'							
Construction Material	STEEL							
Were flowlines pulled?	FLOWLINE PARTIALLY ABANDONED IN PLACE							
Visual Integrity of lines	GOOD - PER INTEGRITY TEST							
Visual impacts if trenched	GOOD - NO IMPACTS OBSERVED							
PID Readings if trenched	14.3	8.7	6.4	7.2	6.5	6.9	7.7	
Sample taken? Location/Sample ID#	FL-S5-01	FL-S5-02	FL-S5-03	FL-S5-04	FL-S5-05	FL-S5-06	FL-S5-07	
Photo Number(s)	SEE PHOTOLOG							
Other observations regarding on location flowlines: FLOWLINE REMOVED W/ PARTIAL ABANDONMENT. PART B (OSEP) ASSESSED. CHANGE IN DIRECTION ASSESSED.								
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: 7				Total number of samples collected: 7				
Highest PID Reading: 14.3				Total number of samples submitted to lab for analysis: 2				
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:				
Seen 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:								



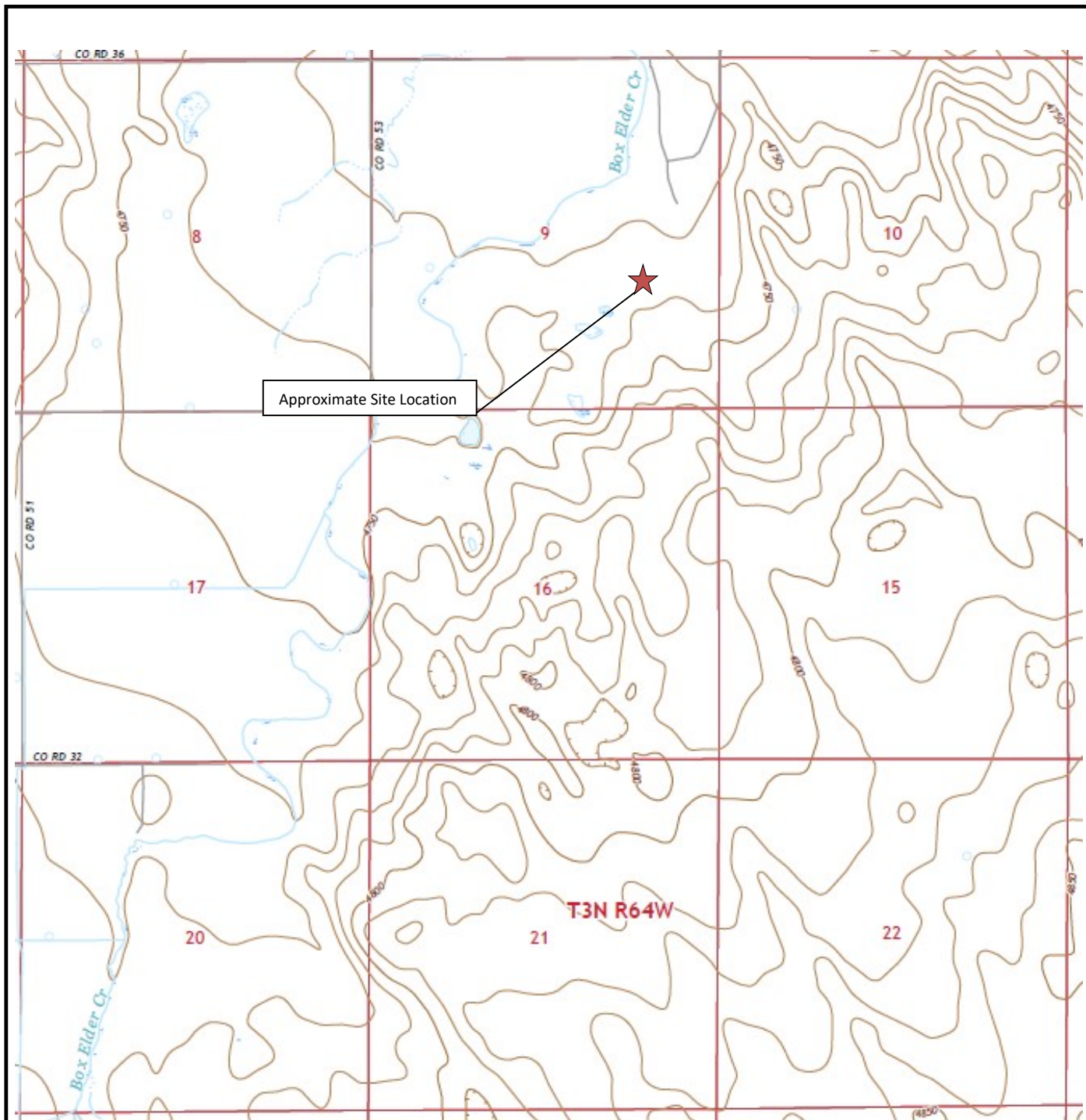
FIGURES

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

Guttersen D #09-09
 Closure Assessment
 40.238617 / -104.548537
 NE¼ SE¼ SEC.9 T3N R64W 6PM
 Weld County, Colorado
 API # 05-123-26910
 Remediation # 20278



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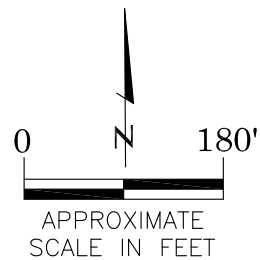
Source: USGS 7.5 Minute Topographic
 Map, Klug Ranch, CO Quadrangle 2022

Figure 1



LEGEND

- FORMER GUTTERSEN D #09-09 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)
- APPROXIMATE BELLHOLE/CUT POINTS FOR REMOVAL



AERIAL SITE LOCATION MAP
GUTTERSEN D #09-09
CLOSURE ASSESSMENT
40.238617 / -104.548537
NE¼ SE¼ SEC.9 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-26910
REMEDIATION # 20278

DATE:

05/06/22

FIG. NO.

2

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

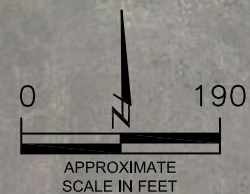
FL-SS-01@3'
04/28/22
3'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
Brn = <0.0995
EC = 0.363
SAR = 0.144
pH = 8.29

BACKGROUND-01@3'
02/01/22
3'
B = NA
T = NA
E = NA
X = NA
G = NA
D = NA
R = NA
1,2,4-TMB = NA
1,3,5-TMB = NA
Brn = NA
EC = NA
SAR = 0.212
pH = 8.15

WH-FS-01@6'
02/01/22
6'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
Brn = <0.198
EC = 0.345
SAR = **7.51**
pH = **8.82**

FL-SS-07@3'
04/28/22
3'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
Brn = <0.101
EC = 0.440
SAR = 0.122
pH = 8.02

BACKGROUND-01
WH-SS-01
WH-SS-02
WH-SS-03
WH-SS-04
WH-FS-01
FL-SS-07



LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- ASSOCIATED FLOWLINE (REMOVED)
- ASSOCIATED FLOWLINE (ABANDONED IN PLACE)
- 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)

NA = NOT ANALYZED
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.

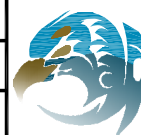
COGCC - COLORADO OIL AND GAS CONSERVATION
COMMISSION

SOIL ANALYTICAL MAP
GUTTERSEN D #09-09
CLOSURE ASSESSMENT
40.238617 / -104.548537
NE¼ SEC.9 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-26910
REMEDATION # 20278

DATE:
05/10/22

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FIG.
NO. 3



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FL-SS-01@3'
04/28/22
3'
ND = <0.00067
1-Methylnaphthalene = ND
2-Methylnaphthalene = ND
Acenaphthene = ND
Anthracene = ND
Benzo(a)anthracene = ND
Benzo(a)pyrene = ND
Benzo(b)fluoranthene = ND
Benzo(k)fluoranthene = ND
Chrysene = ND
Dibenzo(a,h)anthracene = ND
Fluoranthene = ND
Fluorene = ND
Indeno(1,2,3-CD)pyrene = ND
Naphthalene = ND
Pyrene = ND

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

FL-SS-07@3'
04/28/22
3'
ND = <0.00067
1-Methylnaphthalene = ND
2-Methylnaphthalene = ND
Acenaphthene = ND
Anthracene = ND
Benzo(a)anthracene = ND
Benzo(a)pyrene = ND
Benzo(b)fluoranthene = ND
Benzo(k)fluoranthene = ND
Chrysene = ND
Dibenzo(a,h)anthracene = ND
Fluoranthene = ND
Fluorene = ND
Indeno(1,2,3-CD)pyrene = ND
Naphthalene = ND
Pyrene = ND

LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- ASSOCIATED FLOWLINE (REMOVED)
- ASSOCIATED FLOWLINE (ABANDONED IN PLACE)
- 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

GUTTERSEN D #09-09
CLOSURE ASSESSMENT
40.238617 / -104.548537
NE¼ SE¼ SEC.9 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-26910
REMEDIAL # 20278

DATE:

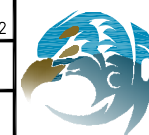
05/10/22

DRAWN BY:

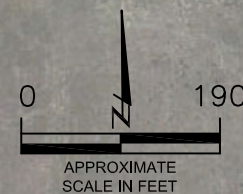
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FIG.

NO. 4



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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
GUTTERSEN D #09-09
CLOSURE ASSESSMENT
40.238617 / -104.548537
NE1/4 SE1/4 SEC.9 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-26910
REMEDIALTION # 20278

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.238621 / -104.548538)	02/01/22	5	2.1	N
WH-SS-02 @ 5' (40.238611 / -104.548528)	02/01/22	5	2.1	N
WH-SS-03 @ 5' (40.238621 / -104.548538)	02/01/22	5	3.0	N
WH-SS-04 @ 5' (40.238611 / -104.548528)	02/01/22	5	1.1	N
WH-FS-01 @ 6' (40.238611 / -104.548538)	02/01/22	6	3.1	Y
Background-01 @ 3' (40.238671 / -104.548558)	02/01/22	3	1.6	Y
FL-SS-01 @ 3' (40.241060 / -104.548998)	04/28/22	3	14.3	Y
FL-SS-02 @ 3' (40.240594 / -104.548894)	04/28/22	3	8.7	N
FL-SS-03 @ 3' (40.240220 / -104.548769)	04/28/22	3	6.4	N
FL-SS-04 @ 3' (40.239691 / -104.548580)	04/28/22	3	7.2	N
FL-SS-05 @ 3' (40.239350 / -104.548488)	04/28/22	3	6.5	N
FL-SS-06 @ 3' (40.239048 / -104.548473)	04/28/22	3	6.9	N
FL-SS-07 @ 3' (40.238623 / -104.548450)	04/28/22	3	7.7	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
GUTTERSEN D #09-09
CLOSURE ASSESSMENT
40.238617 / -104.548537
NE1/4 SE1/4 SEC.9 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-26910
REMEDATION # 20278

Sample Location				WH-FS-01 @ 6'	Background-01 @ 3'	FL-SS-01 @ 3'	FL-SS-07 @ 3'
(Latitude / Longitude)				(40.238611 / -104.548538)	(40.238671 / -104.548558)	(40.241060 / -104.548998)	(40.238623 / -104.548450)
Sample Date				2/1/2022	2/1/2022	4/28/2022	4/28/2022
Sample Depth (feet)				6'	3'	3'	3'
PID Reading (ppm-v)				3.1	1.6	14.3	7.7
Regulatory Limits							
Chemical of Concern	Units	COGCC Table 915-1 RSSLs	COGCC Table 915-1 GSSLs				
VOCs							
Benzene	mg/kg	1.2	0.0026	<0.00200	NA	<0.00200	<0.00200
Toluene	mg/kg	490	0.69	<0.00200	NA	<0.00200	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	<0.00200	NA	<0.00200	<0.00200
Total Xylenes	mg/kg	58	9.9	<0.00200	NA	<0.00200	<0.00200
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	<0.00200	NA	<0.00200	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	<0.00200	NA	<0.00200	<0.00200
Total Petroleum Hydrocarbons							
TPH-GRO	mg/kg	500	--	<0.200	NA	<0.200	<0.200
TPH-DRO	mg/kg	500	--	<25.0	NA	<25.0	<25.0
TPH-RRO	mg/kg	500	--	<100	NA	<100	<100
Polycyclic Aromatics Hydrocarbons							
1-Methyl-naphthalene	mg/kg	18	0.006	<0.00067	NA	<0.00067	<0.00067
2-Methyl-naphthalene	mg/kg	24	0.019	<0.00067	NA	<0.00067	<0.00067
Acenaphthene	mg/kg	360	0.55	<0.00067	NA	<0.00067	<0.00067
Anthracene	mg/kg	1800	5.8	<0.00067	NA	<0.00067	<0.00067
Benzo(a)-anthracene	mg/kg	1.1	0.011	<0.00067	NA	<0.00067	<0.00067
Benzo(a)-pyrene	mg/kg	0.11	0.24	<0.00067	NA	<0.00067	<0.00067
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	<0.00067	NA	<0.00067	<0.00067
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.00067	NA	<0.00067	<0.00067
Chrysene	mg/kg	110	9	<0.00067	NA	<0.00067	<0.00067
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.00067	NA	<0.00067	<0.00067
Fluoranthene	mg/kg	240	8.9	<0.00067	NA	<0.00067	<0.00067
Fluorene	mg/kg	240	0.54	<0.00067	NA	<0.00067	<0.00067
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	<0.00067	NA	<0.00067	<0.00067
Naphthalene	mg/kg	2	0.0038	<0.00067	NA	<0.00067	<0.00067
Pyrene	mg/kg	180	1.3	<0.00067	NA	<0.00067	<0.00067
Soil Suitability (Inorganics)							
Boron	mg/L	2	--	<0.198	NA	<0.0995	<0.101
pH	standard unit	6-8.3	--	8.82	8.15	8.29	8.02
Sodium Adsorption Ratio (SAR)	--	<6	--	7.51	0.212	0.144	0.122
Specific Conductance (EC)	mmhos/cm	<4	--	0.345	NA	0.363	0.440
COGCC = Colorado Oil and Gas Conservation Commission		VOCs = Volatile Organic Compounds		NA - Not Analyzed			
mg/kg = milligrams per kilogram							
mmhos/cm = millimhos per centimeter		RSSLs = Residential Soil Screening Levels					
PID = Photoionization Detector		GSSLs = Protection of Groundwater Soil Screening Levels					
ppm-v = parts per million by volume		TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics					
mg/L = milligrams per liter		TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics					
SAR = Sodium Adsorption Ratio		TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics					
Notes:							
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit							
Values presented in BOLD exceed COGCC Table 915-1 Regulatory Limits.							



ATTACHMENT A

Photo Log

Guttersen D #09-09

API # 05-123-26910

Remediation # 20278

Closure Assessment

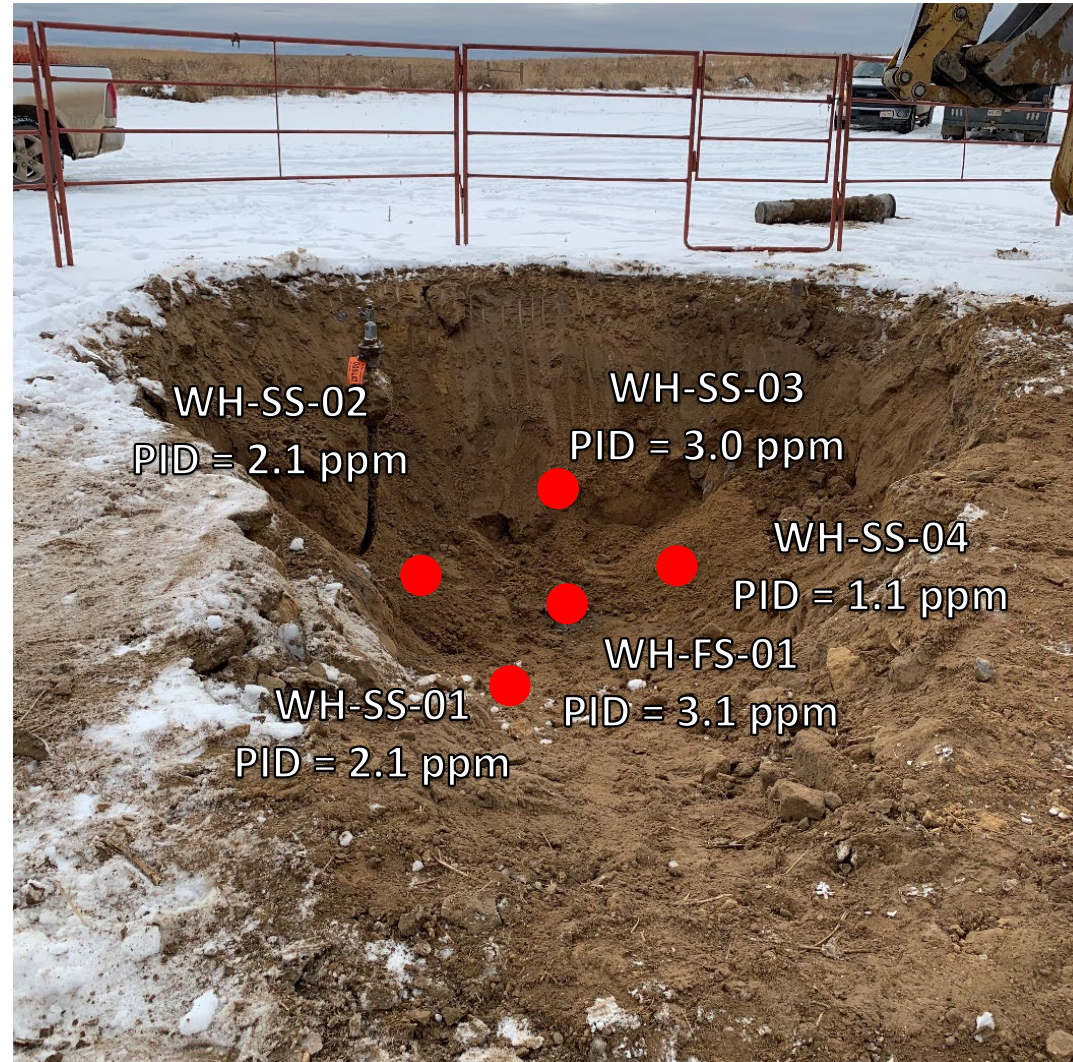
February - April 2022



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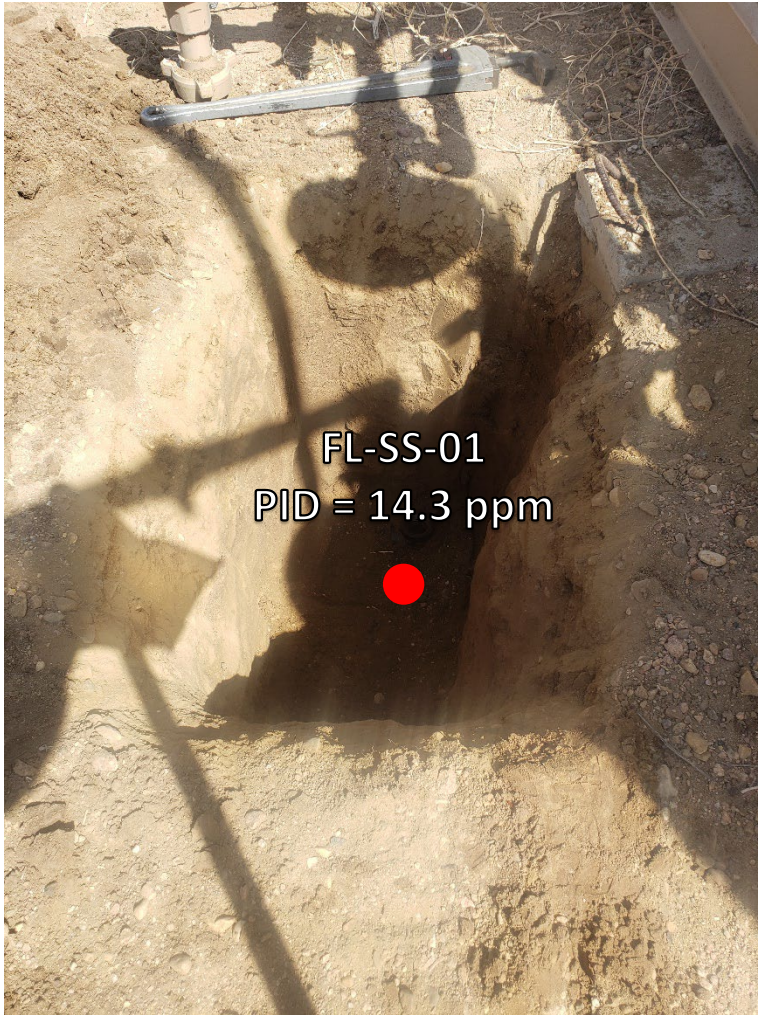
Wellhead Excavation – 2/01/22



Looking south

No petroleum hydrocarbon staining or odor observed

Flowline Assessment – 04/28/22



Flowline pt. B (at separator)
No petroleum hydrocarbon staining or odor observed



Looking south at cut point – flowline abandoned between
FL-SS-01 and FL-SS-02
No petroleum hydrocarbon staining or odor observed

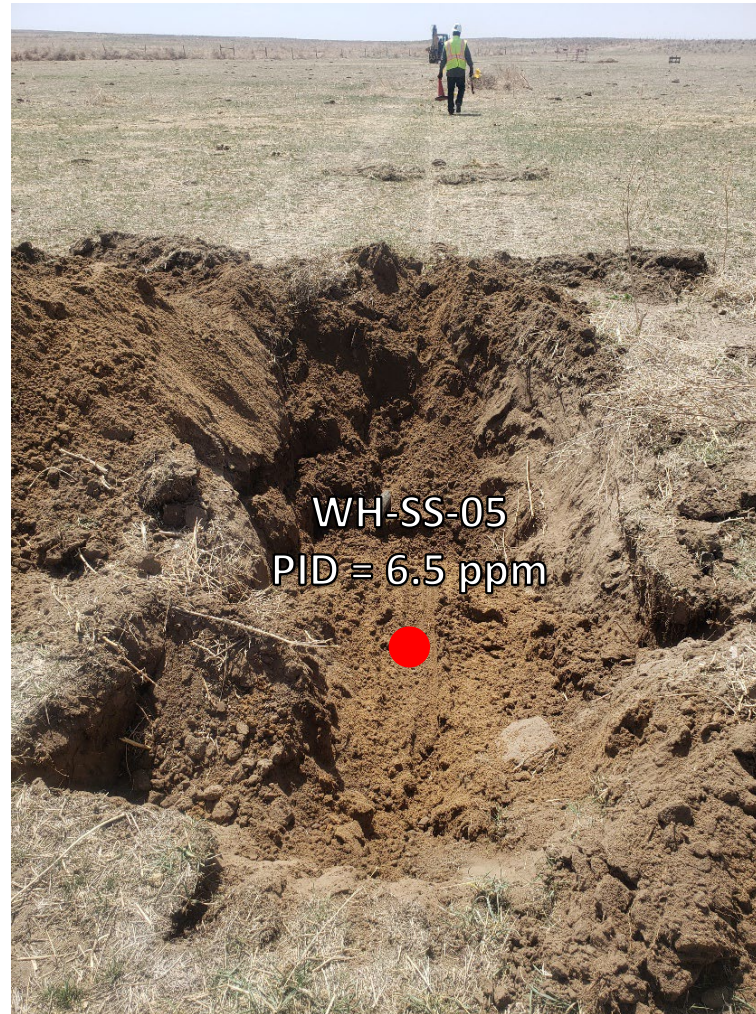


Looking south at cut point
No petroleum hydrocarbon staining or odor observed

Flowline Assessment – 04/28/22



Looking southwest at cut point
No petroleum hydrocarbon staining or odor observed



Looking southwest at cut point
No petroleum hydrocarbon staining or odor observed



Looking southwest at cut point
No petroleum hydrocarbon staining or odor observed

Flowline Assessment – 04/28/22



Looking west at flowline change in direction
No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Reports



February 10, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Guttersen D #09-09

Project Number - [none]

Attached are your analytical results for Noble - Guttersen D #09-09 received by Origins Laboratory, Inc. February 01, 2022. This project is associated with Origins project number Y202027-01.

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
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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 - Gutttersen D #09-09

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y202027-01	Soil	February 1, 2022 9:45	02/01/2022 14:13

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 - Gutterson D #09-09

ORIGINS
LABORATORY, INC

www.originslaboratory.com

4202027

page 1 of 1

Client: Eagle Env Consulting
Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
Telephone Number: 303-433-6479
Email Address: Mar 20@eagle-pharma.com

Project Manager: Martin Eckert III
Project Name: Gutterson D #09-09
Project Number: -
Samples Collected By: RH

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa			Other	
WH-FS-0106	2/1/22	0945	2 X					X			X	X	1	for 546 pt =
													2	detected plate page 2
													3	
													4	Wides used
													5	
													6	
													7	
													8	
													9	
													10	

Relinquished By: [Signature] Date: 2/1/22 Time: 1413
Relinquished By: [Signature] Date: [Blank] Time: [Blank]

Received By: [Signature] Date: 2/1/22 Time: 1413
Received By: [Signature] Date: [Blank] Time: [Blank]

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☒

Temp Received: 3.4 Date Results Needed: 2/1/22

Origins Laboratory, Inc.

[Signature]

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Gutttersen D #09-09

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y202027

Client: Eagle
Client Project ID: Gutttersen D 09-09

Checklist Completed by: SG

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

Date/time completed: 2/1/22

Airbill #: N/A

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

Cooler Number/Temperature: 1, 3, 4 °C 1 °C 1 °C 1 °C

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

2-2-22
Date/Time Reviewed

Origins Laboratory, Inc.

Jordan A. Merrill

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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 - Guttersen D #09-09

WH-FS-01@6'

2/1/2022 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y202027-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.198	mg/L	1	B2B0204	02/02/2022	02/03/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2B0302	02/03/2022	02/04/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	104 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2B0423	02/04/2022	02/08/2022	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	98.4 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Gutterson D #09-09

WH-FS-01@6'

2/1/2022 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y202027-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.1 %	70-130	B2B04 23	02/04/2022	02/08/2022
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	02/02/2022	02/03/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.47	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L597820	02/07/2022	02/07/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Guttersen D #09-09

WH-FS-01@6'

2/1/2022 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y202027-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L597820	02/07/2022	02/07/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	57.2 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	62.7 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	60.6 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.82			pH Units	1	B2B0208	02/02/2022	02/03/2022
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SAR by 20B Saturated Paste

SAR	7.51			SAR	1	B2B0202	02/02/2022	02/03/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.345		0.00500	mmhos/cm	1	B2B0207	02/02/2022	02/03/2022
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Gutttersen D #09-09

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 B2B0302 - EPA 3550B										
Blank (B2B0302-BLK1)					Prepared: 02/03/2022 Analyzed: 02/04/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		102	50-150			

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Guttersen D #09-09

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 B2B0302 - EPA 3550B

LCS (B2B0302-BS1)

Prepared: 02/03/2022 Analyzed: 02/04/2022

Diesel (C10-C28)	1130	50.0	mg/kg	1000		113	70-130			
Residual Range Organics (C28-C40)	907	200	"	1000		90.7	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Guttersen D #09-09

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 B2B0302 - EPA 3550B

Matrix Spike (B2B0302-MS1)		Source: Y202024-06			Prepared: 02/03/2022 Analyzed: 02/04/2022					
Diesel (C10-C28)	1160	50.0	mg/kg	1000	ND	116	70-130			
Residual Range Organics (C28-C40)	964	200	"	1000	ND	96.4	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

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Martin C Eckert III
Project Number: [none]
Project: Noble - Guttersen D #09-09

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 B2B0302 - EPA 3550B										
Matrix Spike Dup (B2B0302-MSD1)		Source: Y202024-06			Prepared: 02/03/2022 Analyzed: 02/04/2022					
Diesel (C10-C28)	1130	50.0	mg/kg	1000	ND	113	70-130	2.69	35	
Residual Range Organics (C28-C40)	944	200	"	1000	ND	94.4	70-130	2.10	35	
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

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Martin C Eckert III
Project Number: [none]
Project: Noble - Gutttersen D #09-09

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 B2B0423 - EPA 5030 (soil)										
Blank (B2B0423-BLK1)					Prepared: 02/04/2022 Analyzed: 02/07/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Guttersen D #09-09

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 B2B0423 - EPA 5030 (soil)

LCS (B2B0423-BS1)

Prepared: 02/04/2022 Analyzed: 02/07/2022

1,2,4-Trimethylbenzene	0.119	0.00200	mg/kg	0.100		119	70-130			
1,3,5-Trimethylbenzene	0.116	0.00200	"	0.100		116	70-130			
Benzene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Naphthalene	0.100	0.0100	"	0.100		100	70-130			
Toluene	0.110	0.00200	"	0.100		110	70-130			
o-Xylene	0.111	0.00200	"	0.100		111	70-130			
m,p-Xylene	0.226	0.00400	"	0.200		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.4	70-130			

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Guttersen D #09-09

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 B2B0423 - EPA 5030 (soil)										
Matrix Spike (B2B0423-MS1)		Source: Y202004-03			Prepared: 02/04/2022 Analyzed: 02/07/2022					
1,2,4-Trimethylbenzene	0.128	0.00200	mg/kg	0.100	0.00178	126	70-130			
1,3,5-Trimethylbenzene	0.127	0.00200	"	0.100	0.000900	126	70-130			
Benzene	0.109	0.00200	"	0.100	ND	109	70-130			
Ethylbenzene	0.128	0.00200	"	0.100	ND	128	70-130			
Naphthalene	0.0756	0.0100	"	0.100	0.00570	69.9	70-130			QM-07
Toluene	0.115	0.00200	"	0.100	ND	115	70-130			
o-Xylene	0.123	0.00200	"	0.100	ND	123	70-130			
m,p-Xylene	0.256	0.00400	"	0.200	0.00126	127	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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Martin C Eckert III
Project Number: [none]
Project: Noble - Guttersen D #09-09

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 B2B0423 - EPA 5030 (soil)										
Matrix Spike Dup (B2B0423-MSD1)		Source: Y202004-03			Prepared: 02/04/2022 Analyzed: 02/07/2022					
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100	0.00178	109	70-130	13.7	20	
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100	0.000900	108	70-130	15.0	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	7.65	20	
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	16.5	20	
Naphthalene	0.0840	0.0100	"	0.100	0.00570	78.3	70-130	10.5	20	
Toluene	0.103	0.00200	"	0.100	ND	103	70-130	10.4	20	
o-Xylene	0.108	0.00200	"	0.100	ND	108	70-130	13.1	20	
m,p-Xylene	0.218	0.00400	"	0.200	0.00126	108	70-130	15.8	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Martin C Eckert III
Project Number: [none]
Project: Noble - Guttersen D #09-09

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2B0207 - NO PREP

Blank (B2B0207-BLK1)

Prepared: 02/02/2022 Analyzed: 02/03/2022

Specific Conductance (EC) 0.000800 0.00500 mmhos/cm

Duplicate (B2B0207-DUP1)

Source: Y202022-32

Prepared: 02/02/2022 Analyzed: 02/03/2022

Specific Conductance (EC) 0.318 0.00500 mmhos/cm 0.336 5.35 25

Batch B2B0208 - NO PREP

Duplicate (B2B0208-DUP1)

Source: Y202022-32

Prepared: 02/02/2022 Analyzed: 02/03/2022

pH 8.10 pH Units 8.02 0.993 25

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Guttersen D #09-09

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 L597820 - 3550B

MSD (L 92713-MSD-L597820)		Source: 92713			Prepared: 02/07/2022 Analyzed: 02/07/2022					
Fluorene	0.114	0.000286	mg/Kg	0.163	<0.000286	69.9	30-130	0.8	30	
Indeno(1,2,3-cd)pyrene	0.118	0.000627	"	0.163	<0.000627	72.3	30-130	1.7	30	
Anthracene	0.117	0.000334	"	0.163	<0.000334	71.7	30-130	2.5	30	
Pyrene	0.119	0.000643	"	0.163	<0.000643	73	30-130	0.8	30	
Fluoranthene	0.123	0.000394	"	0.163	<0.000394	75.4	30-130	0.8	30	
Benzo(a)pyrene	0.126	0.000468	"	0.163	<0.000468	77.3	30-130	4.6	30	
2-Methylnaphthalene	0.107	0.000645	"	0.163	<0.000645	65.6	30-130	1.8	30	
Acenaphthene	0.113	0.000304	"	0.163	<0.000304	69.3	30-130	0.8	30	
1-Methylnaphthalene	0.108	0.000364	"	0.163	<0.000364	66.2	30-130	1.8	30	
Benzo(a)anthracene	0.124	0.000493	"	0.163	<0.000493	76	30-130	1.6	30	
Naphthalene	0.105	0.000484	"	0.163	<0.000484	64.4	30-130	1.9	30	
Benzo(b)fluoranthene	0.102	0.000585	"	0.163	<0.000585	62.5	30-130	18.8	30	
Benzo(k)fluoranthene	0.0898	0.000437	"	0.163	<0.000437	55	30-130	1.3	30	
Chrysene	0.115	0.000624	"	0.163	<0.000624	70.5	30-130	5.9	30	
Dibenz(a,h)anthracene	0.119	0.000614	"	0.163	<0.000614	73	30-130	2.5	30	
Surrogate: Nitrobenzene-d5	63.6		"	0.327	209	63.6	29-110			
Surrogate: 4-Terphenyl-d14	66.9		"	0.327	213	66.9	33-122			
Surrogate: 2-Fluorobiphenyl	60.5		"	0.327	189	60.5	33-115			

MS (L 92713-MS-L597820)		Source: 92713			Prepared: 02/07/2022 Analyzed: 02/07/2022					
Chrysene	0.122	0.000624	mg/Kg	0.166	<0.000624	73.4	30-130			
Pyrene	0.118	0.000643	"	0.166	<0.000643	71	30-130			
Indeno(1,2,3-cd)pyrene	0.116	0.000627	"	0.166	<0.000627	69.8	30-130			
Fluorene	0.115	0.000286	"	0.166	<0.000286	69.2	30-130			
Fluoranthene	0.122	0.000394	"	0.166	<0.000394	73.4	30-130			
Dibenz(a,h)anthracene	0.116	0.000614	"	0.166	<0.000614	69.8	30-130			
Benzo(k)fluoranthene	0.0886	0.000437	"	0.166	<0.000437	53.3	30-130			

Origins Laboratory, Inc.

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Guttersen D #09-09

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 L597820 - 3550B

MS (L 92713-MS-L597820)		Source: 92713			Prepared: 02/07/2022 Analyzed: 02/07/2022					
Benzo(b)fluoranthene	0.0844	0.000585	mg/Kg	0.166	<0.000585	50.8	30-130			
Benzo(a)pyrene	0.132	0.000468	"	0.166	<0.000468	79.5	30-130			
Benzo(a)anthracene	0.122	0.000493	"	0.166	<0.000493	73.4	30-130			
Naphthalene	0.103	0.000484	"	0.166	<0.000484	62	30-130			
Acenaphthene	0.112	0.000304	"	0.166	<0.000304	67.4	30-130			
2-Methylnaphthalene	0.105	0.000645	"	0.166	<0.000645	63.2	30-130			
1-Methylnaphthalene	0.106	0.000364	"	0.166	<0.000364	63.8	30-130			
Anthracene	0.12	0.000334	"	0.166	<0.000334	72.2	30-130			
Surrogate: 4-Terphenyl-d14	66.1		"	0.331	213	66.1	33-122			
Surrogate: Nitrobenzene-d5	61.3		"	0.331	209	61.3	29-110			
Surrogate: 2-Fluorobiphenyl	58.3		"	0.331	189	58.3	33-115			

LCS (LCS-L597820)		Prepared: 02/07/2022 Analyzed: 02/07/2022								
Acenaphthene	0.116	0.000304	mg/Kg	0.167		69.4	30-130			
Chrysene	0.127	0.000624	"	0.167		76	30-130			
Pyrene	0.123	0.000643	"	0.167		73.6	30-130			
Naphthalene	0.107	0.000484	"	0.167		64	30-130			
Indeno(1,2,3-cd)pyrene	0.117	0.000627	"	0.167		70	30-130			
Fluorene	0.12	0.000286	"	0.167		71.8	30-130			
2-Methylnaphthalene	0.109	0.000645	"	0.167		65.2	30-130			
Dibenz(a,h)anthracene	0.117	0.000614	"	0.167		70	30-130			
1-Methylnaphthalene	0.109	0.000364	"	0.167		65.2	30-130			
Benzo(k)fluoranthene	0.0889	0.000437	"	0.167		53.2	30-130			
Benzo(b)fluoranthene	0.103	0.000585	"	0.167		61.6	30-130			
Benzo(a)pyrene	0.135	0.000468	"	0.167		80.8	30-130			
Benzo(a)anthracene	0.131	0.000493	"	0.167		78.4	30-130			
Anthracene	0.125	0.000334	"	0.167		74.8	30-130			

Origins Laboratory, Inc.

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Gutttersen D #09-09

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 L597820 - 3550B

LCS (LCS-L597820)

Prepared: 02/07/2022 Analyzed: 02/07/2022

Fluoranthene	0.124	0.000394	mg/Kg	0.167		74.2	30-130			
Surrogate: Nitrobenzene-d5	65.7		"	0.333		65.7	29-110			
Surrogate: 4-Terphenyl-d14	67.8		"	0.333		67.8	33-122			
Surrogate: 2-Fluorobiphenyl	62.1		"	0.333		62.1	33-115			

LRB (LRB-L597820)

Prepared: 02/07/2022 Analyzed: 02/07/2022

Benzo(k)fluoranthene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	67.2		"	0.333		67.2	33-122			
Surrogate: Nitrobenzene-d5	63.9		"	0.333		63.9	29-110			
Surrogate: 2-Fluorobiphenyl	59.7		"	0.333		59.7	33-115			

Origins Laboratory, Inc.

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Gutttersen D #09-09

Notes and Definitions

U Sample is Non-Detect.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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.



February 21, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Gutttersen D #09-09

Project Number - [none]

Attached are your analytical results for Noble - Gutttersen D #09-09 received by Origins Laboratory, Inc. February 11, 2022. This project is associated with Origins project number Y202245-01.

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 - Guttersen D #09-09

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@3'	Y202245-01	Soil	February 1, 2022 9:49	02/11/2022 09:35

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Guttersen D #09-09

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y202245

Client: Eagle

Client Project ID: Guttersen D 09-09

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 2/11/22

Airbill #: N/A

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

Water

Other:

(Describe)

Cooler Number/Temperature: 1, 3.3 °C

1 °C

1 °C

1 °C

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

Date/Time Reviewed: 2-14-22

Origins Laboratory, Inc.

Jordan A. Merrill

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 - Gutttersen D #09-09

Background-01@3'

2/1/2022 9:49:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y202245-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.95	0.499	meq/L	10	[CALC]	KAP	02/11/2022	02/14/2022
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.15		pH Units	1	B2B1114	TSH	02/11/2022	02/12/2022
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SAR by 20B Saturated Paste

SAR	0.212		SAR	1	B2B1103	KAP	02/11/2022	02/14/2022
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Guttersen D #09-09

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 B2B1114 - NO PREP

Duplicate (B2B1114-DUP1)

Source: Y202231-01

Prepared: 02/11/2022 Analyzed: 02/12/2022

pH	8.18		pH Units		8.27			1.09	25	
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Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Gutterson D #09-09

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



May 10, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Guttersen D #09-09

Project Number - [none]

Attached are your analytical results for Noble - Guttersen D #09-09 received by Origins Laboratory, Inc. April 28, 2022. This project is associated with Origins project number Y204685-01.

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 - Gutttersen D #09-09

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-01@3'	Y204685-01	Soil	April 28, 2022 10:50	04/28/2022 14:00
FL-SS-07@3'	Y204685-02	Soil	April 28, 2022 12:15	04/28/2022 14:00

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Guttersen D #09-09

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4204685

Client: Eagle

Client Project ID: Guttersen D 09-09

Checklist Completed by: SG

Shipped Via: HD

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

Date/time completed: 4/29/22

Airbill #: N/A

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

☐ Water

☐ Other:

(Describe)

Cooler Number/Temperature: 1/21 °C

1 °C

1 °C

1 °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<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) AB

Date/Time Reviewed 5-1-22

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 - Guttersen D #09-09

FL-SS-01@3'

4/28/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204685-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0995	mg/L	1	B2D2912	04/29/2022	05/02/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0203	05/02/2022	05/05/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	84.2 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D2909	04/29/2022	05/01/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Gutterson D #09-09

FL-SS-01@3'

4/28/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204685-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	104 %	70-130	B2D29 09	04/29/2022	05/01/2022
Surrogate: 4-Bromofluorobenzene	92.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.66	0.499	meq/L	10	[CALC]	05/02/2022	05/03/2022
Magnesium	0.831	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L613965	05/03/2022	05/04/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Guttersen D #09-09

FL-SS-01@3'

4/28/2022 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204685-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L613965	05/03/2022	05/04/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	48.6 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	55.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	49.5 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.29	pH Units	1	B2E0211	05/02/2022	05/03/2022
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SAR by 20B Saturated Paste

SAR	0.144	SAR	1	B2E0204	05/02/2022	05/03/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.363	0.00500	mmhos/cm	1	B2E0210	05/02/2022	05/03/2022
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Guttersen D #09-09

FL-SS-07@3'

4/28/2022 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204685-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.101	mg/L	1	B2D2912	04/29/2022	05/02/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E0203	05/02/2022	05/05/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	77.5 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D2909	04/29/2022	05/01/2022	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	"	"	"
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Gutterson D #09-09

FL-SS-07@3'

4/28/2022 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204685-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %	70-130				B2D29 09	04/29/2022	05/01/2022	
Surrogate: 4-Bromofluorobenzene	92.4 %	70-130				"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.26	0.499	meq/L	10	[CALC]	05/02/2022	05/03/2022	
Magnesium	0.856	0.823	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L613965	05/03/2022	05/04/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Guttersen D #09-09

FL-SS-07@3'

4/28/2022 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204685-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L613965	05/03/2022	05/04/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	58.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	62.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	58 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.02	pH Units	1	B2E0211	05/02/2022	05/03/2022
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SAR by 20B Saturated Paste

SAR	0.122	SAR	1	B2E0204	05/02/2022	05/03/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.440	0.00500	mmhos/cm	1	B2E0210	05/02/2022	05/03/2022
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Guttersen D #09-09

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 B2D2909 - EPA 5030 (soil)										
Blank (B2D2909-BLK1)					Prepared: 04/29/2022 Analyzed: 05/01/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.5	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 - Guttersen D #09-09

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 B2D2909 - EPA 5030 (soil)										
LCS (B2D2909-BS1)					Prepared: 04/29/2022 Analyzed: 05/01/2022					
1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100		112	70-130			
1,3,5-Trimethylbenzene	0.117	0.00200	"	0.100		117	70-130			
Benzene	0.107	0.00200	"	0.100		107	70-130			
Ethylbenzene	0.114	0.00200	"	0.100		114	70-130			
Naphthalene	0.105	0.0100	"	0.100		105	70-130			
Toluene	0.107	0.00200	"	0.100		107	70-130			
o-Xylene	0.113	0.00200	"	0.100		113	70-130			
m,p-Xylene	0.228	0.00400	"	0.200		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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 - Guttersen D #09-09

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 B2D2909 - EPA 5030 (soil)

Matrix Spike (B2D2909-MS1)		Source: Y204685-01			Prepared: 04/29/2022 Analyzed: 05/01/2022					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130			
Naphthalene	0.0969	0.0100	"	0.100	ND	96.9	70-130			
Toluene	0.102	0.00200	"	0.100	ND	102	70-130			
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130			
m,p-Xylene	0.211	0.00400	"	0.200	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	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 - Guttersen D #09-09

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 B2D2909 - EPA 5030 (soil)										
Matrix Spike Dup (B2D2909-MSD1)		Source: Y204685-01			Prepared: 04/29/2022 Analyzed: 05/01/2022					
1,2,4-Trimethylbenzene	0.0911	0.00200	mg/kg	0.100	ND	91.1	70-130	13.9	20	
1,3,5-Trimethylbenzene	0.0937	0.00200	"	0.100	ND	93.7	70-130	13.7	20	
Benzene	0.0929	0.00200	"	0.100	ND	92.9	70-130	7.98	20	
Ethylbenzene	0.0915	0.00200	"	0.100	ND	91.5	70-130	14.6	20	
Naphthalene	0.0909	0.0100	"	0.100	ND	90.9	70-130	6.33	20	
Toluene	0.0919	0.00200	"	0.100	ND	91.9	70-130	9.99	20	
o-Xylene	0.0929	0.00200	"	0.100	ND	92.9	70-130	12.1	20	
m,p-Xylene	0.183	0.00400	"	0.200	ND	91.3	70-130	14.4	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.7	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 - Guttersen D #09-09

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 B2E0203 - EPA 3550B										
Blank (B2E0203-BLK1)					Prepared: 05/02/2022 Analyzed: 05/05/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		86.8	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 - Guttersen D #09-09

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 B2E0203 - EPA 3550B

LCS (B2E0203-BS1)

Prepared: 05/02/2022 Analyzed: 05/05/2022

Diesel (C10-C28)	918	50.0	mg/kg	1000		91.8	70-130			
Residual Range Organics (C28-C40)	951	200	"	1000		95.1	70-130			
Surrogate: o-Terphenyl	42		"	49.8		85.3	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 - Guttersen D #09-09

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 B2E0203 - EPA 3550B

Matrix Spike (B2E0203-MS1)		Source: Y204683-01			Prepared: 05/02/2022 Analyzed: 05/05/2022					
Diesel (C10-C28)	965	50.0	mg/kg	1000	ND	96.5	70-130			
Residual Range Organics (C28-C40)	965	200	"	1000	ND	96.5	70-130			
Surrogate: o-Terphenyl	41		"	49.8		82.9	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Guttersen D #09-09

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 B2E0203 - EPA 3550B

Matrix Spike Dup (B2E0203-MSD1)		Source: Y204683-01			Prepared: 05/02/2022 Analyzed: 05/05/2022					
Diesel (C10-C28)	931	50.0	mg/kg	1000	ND	93.1	70-130	3.61	35	
Residual Range Organics (C28-C40)	958	200	"	1000	ND	95.8	70-130	0.681	35	
Surrogate: o-Terphenyl	42		"	49.8		83.6	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 - Guttersen D #09-09

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 B2E0210 - NO PREP

Blank (B2E0210-BLK1)

Prepared: 05/02/2022 Analyzed: 05/03/2022

Specific Conductance (EC) 0.00170 0.00500 mmhos/cm

Duplicate (B2E0210-DUP1)

Source: Y204684-01

Prepared: 05/02/2022 Analyzed: 05/03/2022

Specific Conductance (EC) 0.251 0.00500 mmhos/cm 0.234 7.22 25

Batch B2E0211 - NO PREP

Duplicate (B2E0211-DUP1)

Source: Y204684-01

Prepared: 05/02/2022 Analyzed: 05/03/2022

pH 8.12 pH Units 8.08 0.494 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 - Guttersen D #09-09

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 L613965 - 3550B

MSD (L 93046-MSD-L613965)		Source: 93046			Prepared: 05/03/2022 Analyzed: 05/04/2022					
Benzo(b)fluoranthene	0.0814	0.000585	mg/Kg	0.166	<0.000585	49	30-130	2.4	30	
Benzo(k)fluoranthene	0.0887	0.000437	"	0.166	<0.000437	53.4	30-130	10.6	30	
Benzo(a)pyrene	0.0953	0.000468	"	0.166	0.000498	57.1	30-130	4.8	30	
Benzo(a)anthracene	0.0943	0.000493	"	0.166	<0.000493	56.8	30-130	4.2	30	
Chrysene	0.0952	0.000624	"	0.166	<0.000624	57.3	30-130	5.9	30	
Dibenz(a,h)anthracene	0.103	0.000614	"	0.166	<0.000614	62	30-130	5.6	30	
Fluoranthene	0.093	0.000394	"	0.166	<0.000394	56	30-130	6.7	30	
Fluorene	0.088	0.000286	"	0.166	<0.000286	53	30-130	0.5	30	
Indeno(1,2,3-cd)pyrene	0.0848	0.000627	"	0.166	<0.000627	51	30-130	7.9	30	
Naphthalene	0.0812	0.000484	"	0.166	<0.000484	48.9	30-130	1.8	30	
Pyrene	0.095	0.000643	"	0.166	<0.000643	57.2	30-130	4.9	30	
Acenaphthene	0.0852	0.000304	"	0.166	<0.000304	51.3	30-130	2.7	30	
Anthracene	0.0848	0.000334	"	0.166	<0.000334	51	30-130	4.6	30	
1-Methylnaphthalene	0.0803	0.000364	"	0.166	<0.000364	48.3	30-130	1.7	30	
2-Methylnaphthalene	0.0787	0.000645	"	0.166	<0.000645	47.4	30-130	1	30	
Surrogate: Nitrobenzene-d5	52.4		"	0.332	183	52.4	29-110			
Surrogate: 4-Terphenyl-d14	60.5		"	0.332	216	60.5	33-122			
Surrogate: 2-Fluorobiphenyl	53.3		"	0.332	189	53.3	33-115			

MS (L 93046-MS-L613965)		Source: 93046			Prepared: 05/03/2022 Analyzed: 05/04/2022					
Naphthalene	0.0797	0.000484	mg/Kg	0.167	<0.000484	47.7	30-130			
Fluorene	0.0885	0.000286	"	0.167	<0.000286	52.9	30-130			
Indeno(1,2,3-cd)pyrene	0.0918	0.000627	"	0.167	<0.000627	54.9	30-130			
Benzo(a)pyrene	0.1	0.000468	"	0.167	0.000498	59.5	30-130			
Acenaphthene	0.0829	0.000304	"	0.167	<0.000304	49.6	30-130			
Fluoranthene	0.0995	0.000394	"	0.167	<0.000394	59.5	30-130			
Pyrene	0.0998	0.000643	"	0.167	<0.000643	59.7	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 - Guttersen D #09-09

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 L613965 - 3550B

MS (L 93046-MS-L613965)		Source: 93046			Prepared: 05/03/2022 Analyzed: 05/04/2022					
Anthracene	0.0888	0.000334	mg/Kg	0.167	<0.000334	53.1	30-130			
2-Methylnaphthalene	0.0779	0.000645	"	0.167	<0.000645	46.6	30-130			
1-Methylnaphthalene	0.0789	0.000364	"	0.167	<0.000364	47.2	30-130			
Benzo(b)fluoranthene	0.0794	0.000585	"	0.167	<0.000585	47.5	30-130			
Benzo(k)fluoranthene	0.0987	0.000437	"	0.167	<0.000437	59.1	30-130			
Chrysene	0.101	0.000624	"	0.167	<0.000624	60.4	30-130			
Dibenz(a,h)anthracene	0.109	0.000614	"	0.167	<0.000614	65.2	30-130			
Benzo(a)anthracene	0.0984	0.000493	"	0.167	<0.000493	58.9	30-130			
Surrogate: Nitrobenzene-d5	53.7		"	0.333	183	53.7	29-110			
Surrogate: 4-Terphenyl-d14	66		"	0.333	216	66	33-122			
Surrogate: 2-Fluorobiphenyl	56.1		"	0.333	189	56.1	33-115			

LCS (LCS-L613965)		Prepared: 05/03/2022 Analyzed: 05/04/2022								
Fluoranthene	0.101	0.000394	mg/Kg	0.167		60.4	30-130			
Chrysene	0.101	0.000624	"	0.167		60.4	30-130			
Pyrene	0.103	0.000643	"	0.167		61.6	30-130			
Naphthalene	0.0878	0.000484	"	0.167		52.5	30-130			
Fluorene	0.0956	0.000286	"	0.167		57.2	30-130			
Dibenz(a,h)anthracene	0.111	0.000614	"	0.167		66.4	30-130			
Indeno(1,2,3-cd)pyrene	0.0901	0.000627	"	0.167		53.9	30-130			
Benzo(k)fluoranthene	0.0982	0.000437	"	0.167		58.8	30-130			
1-Methylnaphthalene	0.0882	0.000364	"	0.167		52.8	30-130			
2-Methylnaphthalene	0.0853	0.000645	"	0.167		51	30-130			
Acenaphthene	0.0927	0.000304	"	0.167		55.5	30-130			
Anthracene	0.0976	0.000334	"	0.167		58.4	30-130			
Benzo(a)anthracene	0.1	0.000493	"	0.167		59.8	30-130			
Benzo(a)pyrene	0.104	0.000468	"	0.167		62.2	30-130			

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Martin C Eckert III
Project Number: [none]
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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 L613965 - 3550B

LCS (LCS-L613965)

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

Benzo(b)fluoranthene	0.0836	0.000585	mg/Kg	0.167		50	30-130			
Surrogate: Nitrobenzene-d5	58.5		"	0.333		58.5	29-110			
Surrogate: 2-Fluorobiphenyl	61.5		"	0.333		61.5	33-115			
Surrogate: 4-Terphenyl-d14	69.6		"	0.333		69.6	33-122			

LRB (LRB-L613965)

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

Acenaphthene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Chrysene	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	57.6		"	0.333		57.6	29-110			
Surrogate: 4-Terphenyl-d14	68.1		"	0.333		68.1	33-122			
Surrogate: 2-Fluorobiphenyl	60		"	0.333		60	33-115			

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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Gutttersen D #09-09

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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