

Wellhead Closure Checklist COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form									
Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure	Partially Buried Vault Closure		
Site Name & COGCC Facility Number: Guttersen D #30-68-1HN		Date: 10-19-23				Remediation Project #: 30548			
Associated Wells: 05-123-35611		Age of Site: years				Number of Photos Attached: 6			
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.199950 / -104.583230						Estimated Facility Size (acres):			
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)									
Site in good condition									
USCS Soil Type: SW				Estimated Depth to Groundwater: >20'					
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)									
None observed									
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)									
None observed									
Wellhead(s)									
Well API	05-123-35611								
Age	years								
Condition of surface around wellhead	Good - no staining/no odor								
PID Readings	WH-N: 1.1	WH-E: 0.7	WH-S: 2.4	WH-W: 1.6					
Condition of subsurface (staining present)	Good - no staining/no odor								
PID Readings	2.3	1.9	2.1	2.1	2.2				
Sample taken? Location/Sample ID#	WH-FS-01	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04				
Photo Number(s)	See photolog								
Other observations regarding wellheads:									
Summary									
Was impacted soil identified? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - less than 10 cubic yards <input type="checkbox"/> Yes - more than 10 cubic yards									
Total number of samples field screened:			9		Total number of samples collected:			9	
Highest PID Reading:			2.4		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:				Volume of soil removed:					
Is additional investigation required?									
Was groundwater encountered during the investigation? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - not impacted or in contact with impacted soils <input type="checkbox"/> Yes - groundwater impacted and/or in contact with impacted soils									
Measured depth to groundwater:				Was remedial groundwater removal conducted? <input type="checkbox"/> Yes <input type="checkbox"/> No					
Date Groundwater was encountered:				Commencement date of removal:					
Sheen on groundwater? <input type="checkbox"/> Yes <input type="checkbox"/> No				Volume of groundwater removed prior to sampling:					
Free product observed? <input type="checkbox"/> Yes <input type="checkbox"/> 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:									



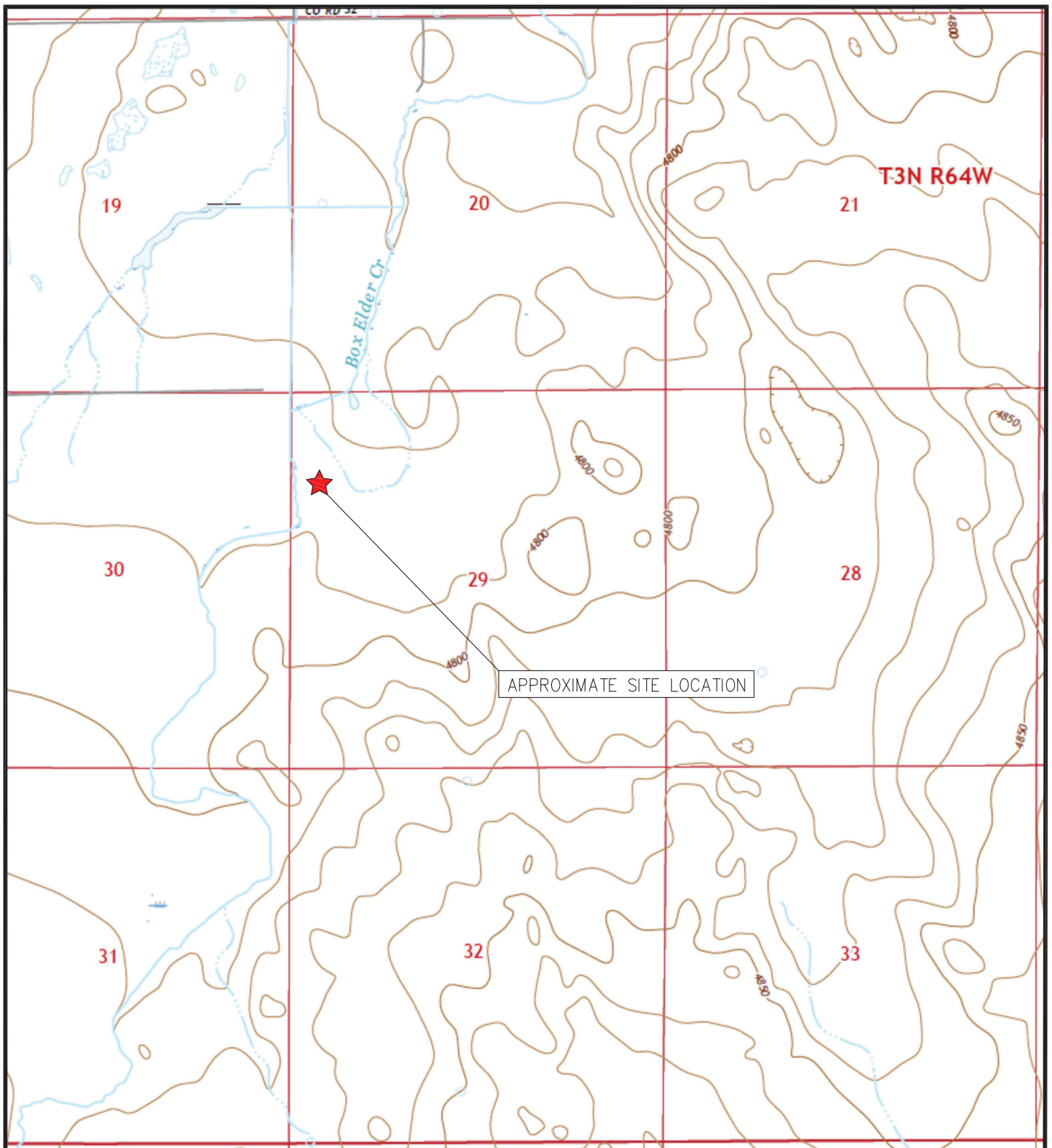
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Metals in Soil Map



TOPOGRAPHIC SITE LOCATION MAP
 GUTTERSEN D #30-68-1HN
 CLOSURE ASSESSMENT
 40.199950 / -104.583230
 NW¼ NW¼ SEC.29 T3N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-35611
 REMEDIATION # 30548



EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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

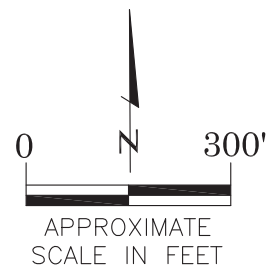
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,
 KLUG RANCH, CO QUADRANGLE 2022

FIGURE NO. 1



LEGEND

- FORMER GUTTERSEN D #30-68-1HN WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP
GUTTERSEN D #30-68-1HN
CLOSURE ASSESSMENT
40.199950 / -104.583230
NW¼ NW¼ SEC.29 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-35611
REMEDATION # 30548

FIGURE NO.
2

DRAWN BY:
JF



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LEGEND

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

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
N = NAPHTHALENE (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)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

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

(BRL) = ALL VALUES BELOW REGULATORY LIMITS

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS
TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

NOTES:
VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP
GUTTERSEN D #30-68-1HN
CLOSURE ASSESSMENT
40.199950 / -104.583230
NW¼ NW¼ SEC.29 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-35611
REMEDATION # 30548

FIGURE NO.
3

DRAWN BY:
BU



LEGEND

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

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH
Arsenic = (mg/kg)
Barium = (mg/kg)
Cadmium = (mg/kg)
Chromium (VI) = (mg/kg)
Copper = (mg/kg)
Lead = (mg/kg)
Nickel = (mg/kg)
Selenium = (mg/kg)
Silver = (mg/kg)
Zinc = (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

NA = NOT ANALYZED

NOTES:
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT/OR ABOVE LABORATORY REPORTING LIMITS AND/OR MINIMUM DETECTION LIMITS.

ELEVATED METALS ARE NATURALLY OCCURRING IN COLORADO. LOCAL CLEAN-UP LEVELS ARE 1.25*BACKGROUND CONCENTRATIONS WHERE APPLICABLE.

VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS AND APPLICABLE LOCAL CLEAN-UP LEVELS.

*VALUES EXCEED ECMC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS, ONLY.

**ACHIEVABLE PRACTICAL QUANTITATIVE LIMITS FOR HEXAVALENT CHROMIUM (Cr VI) IN SOILS IS IN THE RANGE OF 0.1 TO 1 mg/kg.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

METALS IN SOIL MAP
GUTTERSEN D #30-68-1HN
CLOSURE ASSESSMENT
40.199950 / -104.583230
NW¼ NW¼ SEC.29 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-35611
REMEDATION # 30548

FIGURE NO.

4

DRAWN BY:

BU



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CONSULTING, LLC

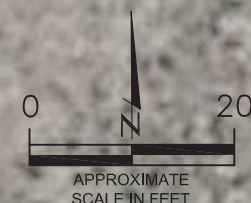
8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449

WH-FS-01@6'
10/17/23
6'
Arsenic = 1.56
Barium = 116*
Cadmium = <0.0846
Chromium (VI) = <0.164**
Copper = <8.46
Lead = <8.46
Nickel = <8.46
Selenium = <0.0846
Silver = <0.0846
Zinc = <84.6

BACKGROUND-01

BACKGROUND-01@2'
10/17/23
2'
Arsenic = 1.86
Barium = 147*
Cadmium = NA
Chromium (VI) = NA
Copper = NA
Lead = NA
Nickel = NA
Selenium = NA
Silver = NA
Zinc = NA

WH-N
WH-SS-01
WH-SS-04
WH-W
WH-SS-02
WH-E
WH-FS-01
WH-SS-03
WH-S





TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
GUTTERSEN D #30-68-1HN
CLOSURE ASSESSMENT
40.199950 / -104.583230
NW¼ NW¼ SEC.29 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-35611
REMEDIALTION # 30548

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-FS-01 @ 6' (40.200005 / -104.583240)	10/19/23	6	2.3	Y
WH-SS-01 @ 5' (40.200020 / -104.583243)	10/19/23	5	1.9	N
WH-SS-02 @ 5' (40.200007 / -104.583220)	10/19/23	5	2.1	N
WH-SS-03 @ 5' (40.199994 / -104.583242)	10/19/23	5	2.1	N
WH-SS-04 @ 5' (40.200005 / -104.583258)	10/19/23	5	2.2	N
WH-N @ 0.5' (40.200035 / -104.583241)	10/19/23	0.5	1.1	N
WH-E @ 0.5' (40.200006 / -104.583203)	10/19/23	0.5	0.7	N
WH-S @ 0.5' (40.199980 / -104.583242)	10/19/23	0.5	2.4	N
WH-W @ 0.5' (40.200006 / -104.583279)	10/19/23	0.5	1.6	N
Background-01 @ 2' (40.200006 / -104.583330)	10/19/23	2	3.0	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
GUTTERSEN D #30-68-1HN
CLOSURE ASSESSMENT
40.199950 / -104.583230
NW¼ NW¼ SEC.29 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-35611
REMEDATION # 30548

Sample Location (Latitude / Longitude)				WH-FS-01 @ 6'		Background-01 @ 2'	
Sample Date				10/17/2023		10/17/2023	
Sample Depth				6		2	
PID Reading (ppm-v)				2.3		3.0	
Regulatory Limits							
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	Local Clean-Up Level			
VOLATILE ORGANIC COMPOUNDS							
Benzene	mg/kg	1.2	0.0026	--	<0.00200	NA	
Toluene	mg/kg	490	0.69	--	<0.00200	NA	
Ethylbenzene	mg/kg	5.8	0.78	--	<0.00200	NA	
Total Xylenes	mg/kg	58	9.9	--	<0.00200	NA	
Naphthalene	mg/kg	2	0.0038	--	<0.00380	NA	
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.00200	NA	
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.00200	NA	
TOTAL PETROLEUM HYDROCARBONS							
TPH-GRO	mg/kg	500	--	--	<0.200	NA	
TPH-DRO	mg/kg		--	--	<25.0	NA	
TPH-RRO	mg/kg		--	--	<100	NA	
POLYCYCLIC AROMATIC HYDROCARBONS							
1-Methyl-naphthalene	mg/kg	18	0.006	--	0.003	NA	
2-Methyl-naphthalene	mg/kg	24	0.019	--	0.007	NA	
Acenaphthene	mg/kg	360	0.55	--	<0.020	NA	
Anthracene	mg/kg	1800	5.8	--	<0.020	NA	
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.005	NA	
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.002	NA	
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.002	NA	
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.002	NA	
Chrysene	mg/kg	110	9	--	<0.002	NA	
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.002	NA	
Fluoranthene	mg/kg	240	8.9	--	<0.002	NA	
Fluorene	mg/kg	240	0.54	--	<0.002	NA	
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.002	NA	
Pyrene	mg/kg	180	1.3	--	<0.020	NA	
SOIL SUITABILITY (Inorganics)							
Boron	mg/L	2	--	--	0.146	NA	
pH	standard unit	6-8.3	--	--	8.24	NA	
Sodium Adsorption Ratio (SAR)	--	<6	--	--	2.22	NA	
Specific Conductance (EC)	mmhos/cm	<4	--	--	0.424	NA	
METALS							
Arsenic	mg/kg	0.68	0.29	2.33	1.56	1.86	
Barium	mg/kg	15000	82	184	116*	147*	
Cadmium	mg/kg	71	0.38	--	<0.0846	NA	
Copper	mg/kg	3100	46	--	<8.46	NA	
Lead	mg/kg	400	14	--	<8.46	NA	
Nickel	mg/kg	1500	26	--	<8.46	NA	
Selenium	mg/kg	390	0.26	--	<0.0846	NA	
Silver	mg/kg	390	0.8	--	<0.0846	NA	
Zinc	mg/kg	23000	370	--	<84.6	NA	
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	<0.164**	NA	
ECMC = Energy & Carbon Management 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 NA - Not Analyzed Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit. Elevated metals are naturally occurring in Colorado. Local Clean-up Levels are 1.25*Background concentrations where applicable. Values presented in BOLD exceed ECMC Table 915-1 Regulatory Limits and applicable Local Clean-up Levels. Values presented with asterisk (*) exceed ECMC Table 915-1 GSSLs, only. **Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg.							



ATTACHMENT A

Photo Log

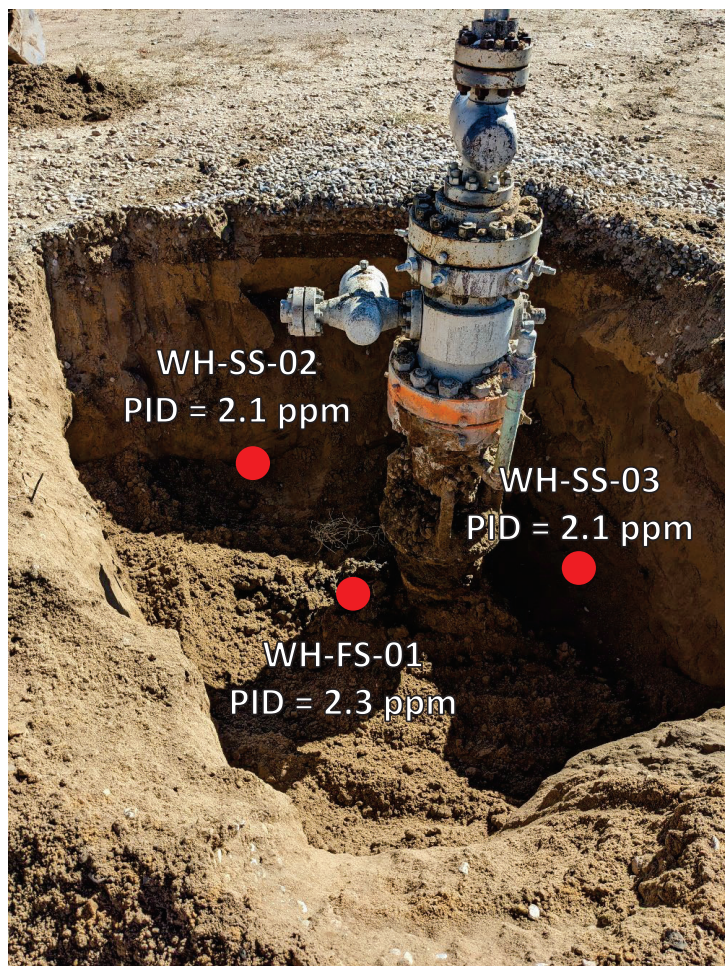
Gutterson D #30-68-1HN
API # 05-123-35611
Remediation # 30548

Closure Assessment

October 2023



Wellhead Excavation – 10/19/23

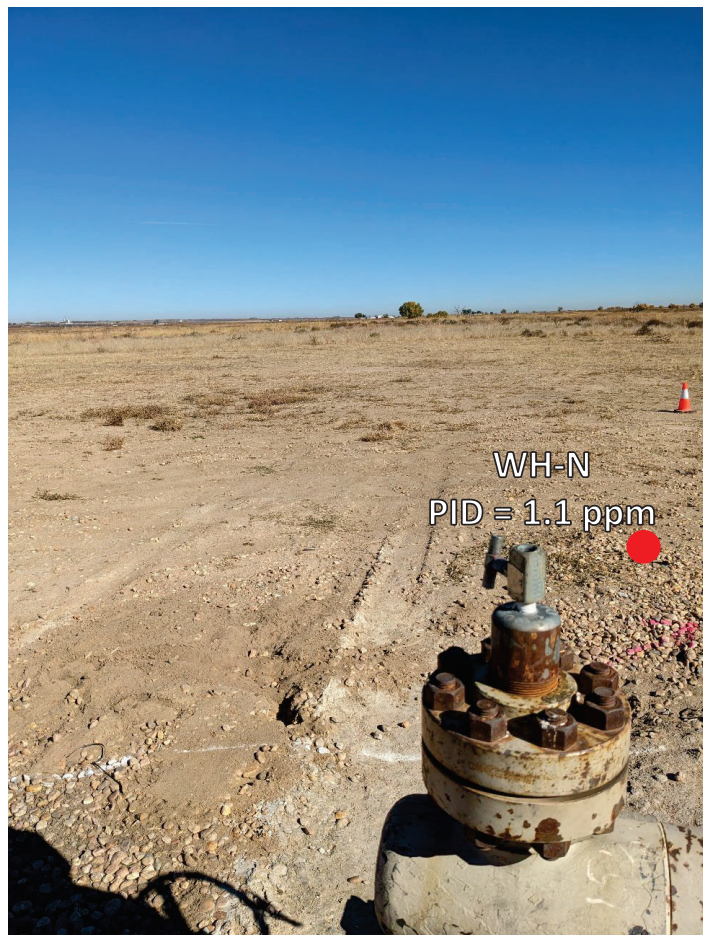


Looking east southeast
No petroleum hydrocarbon staining or odor observed



Looking west
No petroleum hydrocarbon staining or odor observed

Wellhead Surface – 10/19/23



Looking north

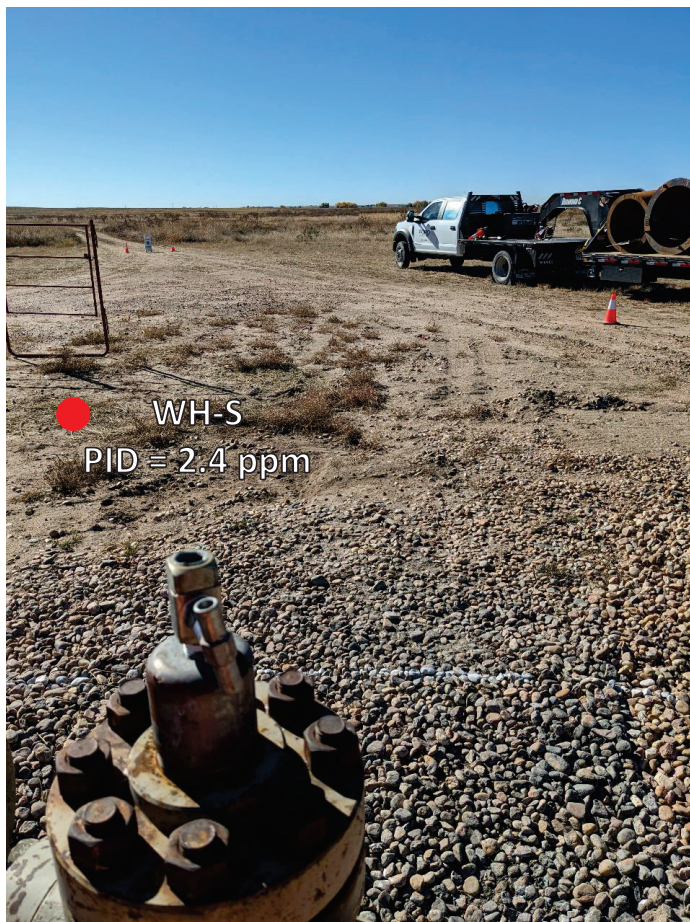
Site in good condition – no petroleum hydrocarbon staining or odor
Observed on surface around wellhead



Looking east

Site in good condition – no petroleum hydrocarbon staining or odor
Observed on surface around wellhead

Wellhead Surface – 10/19/23



Looking south

Site in good condition – no petroleum hydrocarbon staining or odor
Observed on surface around wellhead



Looking west

Site in good condition – no petroleum hydrocarbon staining or odor
Observed on surface around wellhead



ATTACHMENT B

Laboratory Analytical Report



November 01, 2023

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Guttersen D #30-68-1 HN Project Number - [none]

Attached are your analytical results for Noble - Guttersen D #30-68-1 HN received by Origins Laboratory, Inc. October 19, 2023. This project is associated with Origins project number Y310553-01.

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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Gutterson D #30-68-1 HN

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y310553-01	Soil	October 19, 2023 12:02	10/19/2023 17:23

Chain of Custody Modification Request

On 11/1/2023, Kendra Marcum from Eagle Environmental contacted Jordan Bynon via email regarding Y310553 requesting that the project name be revised from Gutterson to Gutterson. Requested modifications to the chain of custody were made by Jordan Bynon on 11/1/2023.

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.

Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: [none]
Project: Noble - Gutterson D #30-68-1 HN

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4310553

Client: Eagle

Client Project ID: Gutterson D #30-68-1 HN

Checklist Completed by: SHS

Shipped Via: HD

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

Date/time completed: 10/19/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 2 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: 7004

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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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)

Date/Time Reviewed 10/23/23

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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Gutterson D #30-68-1 HN

WH-FS-01@6'

10/19/2023 12:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310553-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.146	0.102	mg/L	1	B3J2514	10/25/2023	10/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3J2402	10/24/2023	10/25/2023	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	98.3 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3J2034	10/20/2023	10/22/2023	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Naphthalene	ND	0.00380	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Gutterson D #30-68-1 HN

WH-FS-01@6'

10/19/2023 12:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310553-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	120 %	70-130	B3J2034	10/20/2023	10/22/2023
Surrogate: Toluene-d8	96.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.04	0.499	meq/L	10	[CALC]	10/24/2023	10/25/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.81	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.003	0.002	mg/kg	1	B3J2327	10/23/2023	10/30/2023
2-Methylnaphthalene	0.007	0.002	"	"	"	"	"
Acenaphthene	ND	0.020	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	Ua

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

Andrew Newberry
Project Number: [none]
Project: Noble - Guttersen D #30-68-1 HN

WH-FS-01@6'

10/19/2023 12:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310553-01 (Soil)

PAH by EPA 8270E

Fluorene	ND	0.020	mg/kg	1	B3J2327	10/23/2023	10/30/2023	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	Ua
Pyrene	ND	0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	102 %	60-130	"	"	"
Surrogate: Anthracene-d10	109 %	60-130	"	"	"
Surrogate: Pyrene-d10	102 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	60-130	"	"	"

pH in Soil by 9045D

pH	8.24	pH Units	1	B3J2425	10/24/2023	10/25/2023
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SAR by 20B Saturated Paste

SAR	2.22	0.0100	SAR	1	B3J2420	10/24/2023	10/25/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.424	0.00500	mmhos/cm	1	B3J2425	10/24/2023	10/25/2023
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Table 915 metals by EPA 6020B

Arsenic	1.56	0.0846	mg/kg	10	B3J2018	10/20/2023	10/24/2023
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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Guttersen D #30-68-1 HN

WH-FS-01@6'

10/19/2023 12:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y310553-01 (Soil)


Table 915 metals by EPA 6020B

Barium	116	8.46	mg/kg	10	B3J2018	10/20/2023	10/24/2023
Cadmium	ND	0.0846	"	"	"	"	"
Copper	ND	8.46	"	"	"	"	"
Lead	ND	8.46	"	"	"	"	"
Nickel	ND	8.46	"	"	"	"	"
Selenium	ND	0.0846	"	"	"	"	"
Silver	ND	0.0846	"	"	"	"	"
Zinc	ND	84.6	"	"	"	"	"

Total Metals by 7196A

Hexavalent Chromium	ND	0.164	0.409	mg/kg dry	1	2512704	10/23/2023	10/24/2023	U
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Gutterson D #30-68-1 HN

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 B3J2034 - EPA 5030 (soil)										
Blank (B3J2034-BLK1)					Prepared: 10/20/2023 Analyzed: 10/22/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	70-130			

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Andrew Newberry
Project Number: [none]
Project: Noble - Guttersen D #30-68-1 HN

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 B3J2034 - EPA 5030 (soil)										
LCS (B3J2034-BS1)					Prepared: 10/20/2023 Analyzed: 10/22/2023					
1,2,4-Trimethylbenzene	0.116	0.00200	mg/kg	0.100		116	70-130			
1,3,5-Trimethylbenzene	0.117	0.00200	"	0.100		117	70-130			
Benzene	0.111	0.00200	"	0.100		111	70-130			
Ethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Naphthalene	0.116	0.00380	"	0.100		116	70-130			
Toluene	0.109	0.00200	"	0.100		109	70-130			
o-Xylene	0.116	0.00200	"	0.100		116	70-130			
m,p-Xylene	0.226	0.00400	"	0.200		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.4	70-130			

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Andrew Newberry
Project Number: [none]
Project: Noble - Guttersen D #30-68-1 HN

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 B3J2034 - EPA 5030 (soil)										
Matrix Spike (B3J2034-MS1)		Source: Y310484-48			Prepared: 10/20/2023 Analyzed: 10/22/2023					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Benzene	0.0986	0.00200	"	0.100	ND	98.6	70-130			
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Naphthalene	0.102	0.00380	"	0.100	ND	102	70-130			
Toluene	0.0965	0.00200	"	0.100	ND	96.5	70-130			
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130			
m,p-Xylene	0.208	0.00400	"	0.200	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.5	70-130			

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Andrew Newberry
Project Number: [none]
Project: Noble - Guttersen D #30-68-1 HN

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 B3J2034 - EPA 5030 (soil)										
Matrix Spike Dup (B3J2034-MSD1)	Source: Y310484-48				Prepared: 10/20/2023 Analyzed: 10/22/2023					
1,2,4-Trimethylbenzene	0.116	0.00200	mg/kg	0.100	ND	116	70-130	10.1	20	
1,3,5-Trimethylbenzene	0.117	0.00200	"	0.100	ND	117	70-130	11.2	20	
Benzene	0.111	0.00200	"	0.100	ND	111	70-130	12.2	20	
Ethylbenzene	0.112	0.00200	"	0.100	ND	112	70-130	10.2	20	
Naphthalene	0.117	0.00380	"	0.100	ND	117	70-130	14.3	20	
Toluene	0.109	0.00200	"	0.100	ND	109	70-130	11.8	20	
o-Xylene	0.118	0.00200	"	0.100	ND	118	70-130	11.2	20	
m,p-Xylene	0.231	0.00400	"	0.200	ND	115	70-130	10.3	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

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Andrew Newberry
Project Number: [none]
Project: Noble - Gutterson D #30-68-1 HN

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 B3J2402 - EPA 3550B										
Blank (B3J2402-BLK1)					Prepared: 10/24/2023 Analyzed: 10/25/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	24		"	24.9		97.9	50-150			

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Andrew Newberry
Project Number: [none]
Project: Noble - Guttersen D #30-68-1 HN

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 B3J2402 - EPA 3550B										
LCS (B3J2402-BS1)					Prepared: 10/24/2023 Analyzed: 10/25/2023					
Diesel (C10-C28)	1110	50.0	mg/kg	1000		111	70-130			
Residual Range Organics (C28-C40)	872	200	"	1000		87.2	70-130			
Surrogate: o-Terphenyl	55		"	49.8		110	50-150			

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Andrew Newberry
Project Number: [none]
Project: Noble - Gutterson D #30-68-1 HN

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 B3J2402 - EPA 3550B

Matrix Spike (B3J2402-MS1)		Source: Y310553-01			Prepared: 10/24/2023 Analyzed: 10/25/2023					
Diesel (C10-C28)	1170	50.0	mg/kg	1000	ND	117	70-130			
Residual Range Organics (C28-C40)	944	200	"	1000	ND	94.4	70-130			
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

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Jordan A. Bynon, Project Manager


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

Andrew Newberry
Project Number: [none]
Project: Noble - Gutterson D #30-68-1 HN

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 B3J2402 - EPA 3550B										
Matrix Spike Dup (B3J2402-MSD1)		Source: Y310553-01			Prepared: 10/24/2023 Analyzed: 10/25/2023					
Diesel (C10-C28)	983	50.0	mg/kg	1000	ND	98.3	70-130	17.5	35	
Residual Range Organics (C28-C40)	769	200	"	1000	ND	76.9	70-130	20.4	35	
Surrogate: o-Terphenyl	47		"	49.8		94.3	50-150			

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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Gutterson D #30-68-1 HN

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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Metals by EPA 6000/7000 Series Methods - 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 B3J2018 - EPA 3050B

Blank (B3J2018-BLK1)

Prepared: 10/20/2023 Analyzed: 10/24/2023

Arsenic	ND	0.000100	mg/kg
Barium	ND	0.0100	"
Cadmium	ND	0.000100	"
Copper	ND	0.0100	"
Lead	ND	0.0100	"
Nickel	ND	0.0100	"
Selenium	ND	0.000100	"
Silver	ND	0.000100	"
Zinc	ND	0.100	"

LCS (B3J2018-BS1)

Prepared: 10/20/2023 Analyzed: 10/24/2023

Arsenic	0.0520	0.000100	mg/kg	0.0500	104	80-120
Barium	5.22	0.0100	"	5.00	104	80-120
Cadmium	0.0506	0.000100	"	0.0500	101	80-120
Copper	0.533	0.0100	"	0.500	107	80-120
Lead	0.0500	0.0100	"	0.0500	100	80-120
Nickel	0.0521	0.0100	"	0.0500	104	80-120
Selenium	0.0476	0.000100	"	0.0500	95.2	80-120
Silver	0.0525	0.000100	"	0.0500	105	80-120
Zinc	0.518	0.100	"	0.500	104	80-120

Matrix Spike (B3J2018-MS1)

Source: Y310124-02

Prepared: 10/20/2023 Analyzed: 10/24/2023

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Guttersen D #30-68-1 HN

Metals by EPA 6000/7000 Series Methods - 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 B3J2018 - EPA 3050B

Matrix Spike (B3J2018-MS1)		Source: Y310124-02			Prepared: 10/20/2023 Analyzed: 10/24/2023					
Arsenic	6.46	0.0918	mg/kg	4.59	1.88	99.7	75-125			
Barium	545	9.18	"	459	68.0	104	75-125			
Cadmium	4.84	0.0918	"	4.59	0.0953	103	75-125			
Copper	54.2	9.18	"	45.9	6.38	104	75-125			
Lead	9.18	9.18	"	4.59	5.16	87.5	75-125			
Nickel	9.44	9.18	"	4.59	5.19	92.5	75-125			
Selenium	4.39	0.0918	"	4.59	0.0694	94.2	75-125			
Silver	4.95	0.0918	"	4.59	0.0285	107	75-125			
Zinc	70.7	91.8	"	45.9	27.1	94.9	75-125			
Matrix Spike Dup (B3J2018-MSD1)		Source: Y310124-02			Prepared: 10/20/2023 Analyzed: 10/24/2023					
Arsenic	6.79	0.0953	mg/kg	4.76	1.88	103	75-125	5.03	20	
Barium	583	9.53	"	476	68.0	108	75-125	6.78	20	
Cadmium	5.10	0.0953	"	4.76	0.0953	105	75-125	5.32	20	
Copper	57.1	9.53	"	47.6	6.38	106	75-125	5.16	20	
Lead	9.39	9.53	"	4.76	5.16	88.6	75-125	2.21	20	
Nickel	9.61	9.53	"	4.76	5.19	92.7	75-125	1.81	20	
Selenium	4.63	0.0953	"	4.76	0.0694	95.6	75-125	5.23	20	
Silver	5.24	0.0953	"	4.76	0.0285	109	75-125	5.72	20	
Zinc	74.3	95.3	"	47.6	27.1	99.1	75-125	5.04	20	

Origins Laboratory, Inc.



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Andrew Newberry
Project Number: [none]
Project: Noble - Guttersen D #30-68-1 HN

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3J2327 - EPA 3580

Blank (B3J2327-BLK1)

Prepared: 10/23/2023 Analyzed: 10/30/2023

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua

Surrogate: Fluorene-d10	190		ug/kg	200		97.4	60-130
Surrogate: Anthracene-d10	180		"	200		90.2	60-130
Surrogate: Pyrene-d10	220		"	200		109	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.9	60-130

LCS (B3J2327-BS1)

Prepared: 10/23/2023 Analyzed: 10/30/2023

1-Methylnaphthalene	0.189	0.002	mg/kg	0.200		94.6	70-130
2-Methylnaphthalene	0.194	0.002	"	0.200		97.2	70-130
Acenaphthene	0.197	0.020	"	0.200		98.4	70-130
Anthracene	0.194	0.020	"	0.200		96.9	70-130

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Guttersen D #30-68-1 HN

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3J2327 - EPA 3580

LCS (B3J2327-BS1)

Prepared: 10/23/2023 Analyzed: 10/30/2023

Benzo (a) anthracene	0.205	0.005	mg/kg	0.200		102	70-130
Benzo (a) pyrene	0.196	0.020	"	0.200		98.1	70-130
Benzo (b) fluoranthene	0.193	0.020	"	0.200		96.7	70-130
Benzo (g,h,i) perylene	0.190	0.020	"	0.200		94.9	70-130
Benzo (k) fluoranthene	0.205	0.020	"	0.200		102	70-130
Chrysene	0.219	0.020	"	0.200		110	70-130
Dibenz (a,h) anthracene	0.224	0.020	"	0.200		112	70-130
Fluoranthene	0.183	0.020	"	0.200		91.6	70-130
Fluorene	0.199	0.020	"	0.200		99.7	70-130
Indeno (1,2,3-cd) pyrene	0.193	0.020	"	0.200		96.3	70-130
Naphthalene	0.191	0.002	"	0.200		95.5	70-130
Phenanthrene	0.187	0.020	"	0.200		93.3	70-130
Pyrene	0.223	0.020	"	0.200		112	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		97.8	60-130
Surrogate: Anthracene-d10	180		"	200		90.6	60-130
Surrogate: Pyrene-d10	210		"	200		105	60-130
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.4	60-130

Matrix Spike (B3J2327-MS1)

Source: Y310553-01

Prepared: 10/23/2023 Analyzed: 10/30/2023

1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	0.003	94.1	70-130
2-Methylnaphthalene	0.195	0.002	"	0.200	0.007	93.9	70-130
Acenaphthene	0.206	0.020	"	0.200	0.001	102	70-130
Anthracene	0.199	0.020	"	0.200	ND	99.4	70-130
Benzo (a) anthracene	0.198	0.005	"	0.200	0.002	98.1	70-130
Benzo (a) pyrene	0.235	0.020	"	0.200	ND	118	70-130
Benzo (b) fluoranthene	0.186	0.020	"	0.200	0.0005	92.6	70-130
Benzo (g,h,i) perylene	0.175	0.020	"	0.200	0.003	85.8	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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Guttersen D #30-68-1 HN

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3J2327 - EPA 3580

Matrix Spike (B3J2327-MS1)		Source: Y310553-01			Prepared: 10/23/2023 Analyzed: 10/30/2023					
Benzo (k) fluoranthene	0.225	0.020	mg/kg	0.200	0.002	112	70-130			
Chrysene	0.248	0.020	"	0.200	ND	124	70-130			
Dibenz (a,h) anthracene	0.222	0.020	"	0.200	ND	111	70-130			
Fluoranthene	0.255	0.020	"	0.200	0.0009	127	70-130			
Fluorene	0.218	0.020	"	0.200	0.002	108	70-130			
Indeno (1,2,3-cd) pyrene	0.192	0.020	"	0.200	ND	96.1	70-130			
Naphthalene	0.192	0.002	"	0.200	0.001	95.5	70-130			
Phenanthrene	0.195	0.020	"	0.200	0.004	95.4	70-130			
Pyrene	0.207	0.020	"	0.200	0.003	102	70-130			
Surrogate: Fluorene-d10	220		ug/kg	200		108	60-130			
Surrogate: Anthracene-d10	200		"	200		97.8	60-130			
Surrogate: Pyrene-d10	200		"	200		98.0	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		113	60-130			

Matrix Spike Dup (B3J2327-MSD1)		Source: Y310553-01			Prepared: 10/23/2023 Analyzed: 10/30/2023					
1-Methylnaphthalene	0.180	0.002	mg/kg	0.200	0.003	88.3	70-130	6.32	20	
2-Methylnaphthalene	0.188	0.002	"	0.200	0.007	90.3	70-130	3.77	20	
Acenaphthene	0.201	0.020	"	0.200	0.001	99.9	70-130	2.30	20	
Anthracene	0.204	0.020	"	0.200	ND	102	70-130	2.68	20	
Benzo (a) anthracene	0.205	0.005	"	0.200	0.002	102	70-130	3.61	20	
Benzo (a) pyrene	0.227	0.020	"	0.200	ND	114	70-130	3.52	20	
Benzo (b) fluoranthene	0.203	0.020	"	0.200	0.0005	101	70-130	8.83	20	
Benzo (g,h,i) perylene	0.185	0.020	"	0.200	0.003	90.9	70-130	5.73	20	
Benzo (k) fluoranthene	0.224	0.020	"	0.200	0.002	111	70-130	0.633	20	
Chrysene	0.247	0.020	"	0.200	ND	123	70-130	0.478	20	
Dibenz (a,h) anthracene	0.249	0.020	"	0.200	ND	124	70-130	11.2	20	
Fluoranthene	0.224	0.020	"	0.200	0.0009	112	70-130	12.8	20	

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Guttersen D #30-68-1 HN

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J2327 - EPA 3580										
Matrix Spike Dup (B3J2327-MSD1)			Source: Y310553-01		Prepared: 10/23/2023 Analyzed: 10/30/2023					
Fluorene	0.200	0.020	mg/kg	0.200	0.002	99.4	70-130	8.48	20	
Indeno (1,2,3-cd) pyrene	0.208	0.020	"	0.200	ND	104	70-130	8.10	20	
Naphthalene	0.184	0.002	"	0.200	0.001	91.4	70-130	4.39	20	
Phenanthrene	0.207	0.020	"	0.200	0.004	102	70-130	6.21	20	
Pyrene	0.191	0.020	"	0.200	0.003	93.9	70-130	8.42	20	
Surrogate: Fluorene-d10	190		ug/kg	200		95.3	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	180		"	200		91.0	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		115	60-130			

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Gutterson D #30-68-1 HN

Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3J2420 - Saturated Paste Metals

Blank (B3J2420-BLK1)

Prepared: 10/24/2023 Analyzed: 10/25/2023

Calcium PPM	ND	10.0	mg/L
SAR	ND	0.0100	SAR
Magnesium PPM	ND	10.0	mg/L
Sodium PPM	ND	10.0	"

Duplicate (B3J2420-DUP1)

Source: Y310485-13

Prepared: 10/24/2023 Analyzed: 10/25/2023

Calcium PPM	25.5	10.0	mg/L	23.3	9.07	50
SAR	ND	0.0100	SAR	9.11		200
Magnesium PPM	1.08	10.0	mg/L	0.980	9.71	50
Sodium PPM	183	10.0	"	165	10.1	50

Batch B3J2514 - DTPA Sorbitol Preparation

Blank (B3J2514-BLK1)

Prepared: 10/25/2023 Analyzed: 10/26/2023

Boron	ND	0.100	mg/L
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Duplicate (B3J2514-DUP1)

Source: Y310549-01

Prepared: 10/25/2023 Analyzed: 10/26/2023

Boron	0.760	0.101	mg/L	ND		50
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Gutttersen D #30-68-1 HN

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3J2425 - Saturated Paste pH/EC										
Blank (B3J2425-BLK1)					Prepared: 10/24/2023 Analyzed: 10/25/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3J2425-DUP1)					Source: Y310485-13 Prepared: 10/24/2023 Analyzed: 10/25/2023					
pH	8.26		pH Units		8.24			0.242	25	
Specific Conductance (EC)	1.01	0.00500	mmhos/cm		0.968			4.35	25	

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Guttersen D #30-68-1 HN

Total Metals by 7196A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2512704 - SW846 3060A										
BLANK (1205553982-BLK)					Prepared: 10/23/2023 Analyzed: 10/24/2023					
Hexavalent Chromium	ND	0.399	mg/kg				-			U
LCS (1205553983-BKS)					Prepared: 10/23/2023 Analyzed: 10/24/2023					
Hexavalent Chromium	4.05	0.398	mg/kg	3.98		102	80-120			
DUP (1205553984 D)					Source: 641865001 Prepared: 10/23/2023 Analyzed: 10/24/2023					
Hexavalent Chromium	ND	0.316	mg/kg dry		<0.126		0-50	N/A	50	U
MS (1205553985 S)					Source: 641865001 Prepared: 10/23/2023 Analyzed: 10/24/2023					
Hexavalent Chromium	2.26	0.399	mg/kg dry	3.99	<0.160	55.2	75-125			
DUP (1205553986 D)					Source: 641888007 Prepared: 10/23/2023 Analyzed: 10/24/2023					
Hexavalent Chromium	ND	0.361	mg/kg dry		<0.144		0-50	N/A	50	U
MS (1205553987 S)					Source: 641888007 Prepared: 10/23/2023 Analyzed: 10/24/2023					
Hexavalent Chromium	4.30	0.419	mg/kg dry	4.19	<0.167	100	75-125			
ILCS (1205553988-ILCS)					Prepared: 10/23/2023 Analyzed: 10/24/2023					
Hexavalent Chromium	8.05	0.400	mg/kg	8.10		99.3	80-120			

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Gutterson D #30-68-1 HN

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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.

Jordan A. Bynon, Project Manager



November 13, 2023

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Guttersen D #30-68-1 HN Project Number - [none]

Attached are your analytical results for Noble - Guttersen D #30-68-1 HN received by Origins Laboratory, Inc. November 02, 2023. This project is associated with Origins project number Y311070-01.

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, LLC

8000 W 44th Ave

Wheat Ridge CO 80033

Andrew Newberry

Project Number: [none]

Project: Noble - Gutterson D #30-68-1 HN

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@2'	Y311070-01	Soil	October 19, 2023 11:30	11/02/2023 15:45

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.

Andrew Newberry
Project Number: [none]
Project: Noble - Guttersen D #30-68-1 HN

ORIGINS

LABORATORY, INC

www.originslaboratory.com

page | of |

Client: Engle Environmental Consulting

Project Manager: Andrew Newberry

Address: 3000 W 144th Ave

Project Name: Gottsen D #30-68-44N

Wheat Ridge CO 80033

Project Number:

Telephone Number: 303-433-0479

Samples Collected By: BU

Email Address: anewberry@engle-environ.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix				Analysis	Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	As Summa #	Other					
Baileyville-31 D 2'	10/19/23	1130	1	<input checked="" type="checkbox"/>						X			Ascaric - 60208	1	Wells Ruled	
														2		
														3		
														4		
														5		
														6		
														7		
														8		
														9		
														10		
Relinquished By: <u>Blake Ulrich</u>	Date: <u>11-2-23</u>	Time: <u>1545</u>	Time: <u>1545</u>	Received By: <u>UET</u>	Date: <u>11/2/23</u>	Time: <u>1545</u>	Date: <u>11/2/23</u>	Time: <u>1545</u>	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard <input checked="" type="checkbox"/>							
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Time:	Date:	Time:								

* Bill to Jeff

Temp Received-

433.5

Date Results Needed

4/16/26

Origins Laboratory, Inc.

Byron

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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Gutttersen D #30-68-1 HN

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: YB11070 Client: Eagle
 Checklist Completed by: EAS Client Project ID: Gutttersen D# 30-68-1HN
 Date/time completed: 11/2/23 Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____
 Cooler Number/Temperature: 1 13.5 °C 1 °C 1 °C (Describe) 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"/>			
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 HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: JB (Project Manager) Date/Time Reviewed: 11-16-23

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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - Gutterson D #30-68-1 HN

Background-01@2'
10/19/2023 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311070-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.86	0.0899	mg/kg	10	B3K0320	CIH	11/03/2023	11/07/2023
Barium	147	8.99	"	"	"	CIH	"	"

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Gutterson D #30-68-1 HN

Metals by EPA 6000/7000 Series Methods - 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 B3K0320 - EPA 3050B

Blank (B3K0320-BLK1)

Prepared: 11/03/2023 Analyzed: 11/07/2023

Arsenic	ND	0.000100	mg/kg
Barium	ND	0.0100	"
Cadmium	ND	0.000100	"
Copper	ND	0.0100	"
Lead	ND	0.0100	"
Nickel	ND	0.0100	"
Selenium	ND	0.000100	"
Silver	ND	0.000100	"
Zinc	ND	0.100	"

LCS (B3K0320-BS1)

Prepared: 11/03/2023 Analyzed: 11/07/2023

Arsenic	0.0484	0.000100	mg/kg	0.0500	96.8	80-120
Barium	5.09	0.0100	"	5.00	102	80-120
Cadmium	0.0514	0.000100	"	0.0500	103	80-120
Copper	0.528	0.0100	"	0.500	106	80-120
Lead	0.0514	0.0100	"	0.0500	103	80-120
Nickel	0.0500	0.0100	"	0.0500	100	80-120
Selenium	0.0505	0.000100	"	0.0500	101	80-120
Silver	0.0510	0.000100	"	0.0500	102	80-120
Zinc	0.517	0.100	"	0.500	103	80-120

Matrix Spike (B3K0320-MS1)

Source: Y311056-01

Prepared: 11/03/2023 Analyzed: 11/07/2023

Arsenic	6.18	0.0850	mg/kg	4.25	2.81	79.4	75-125
Barium	483	8.50	"	425	73.8	96.3	75-125
Cadmium	4.34	0.0850	"	4.25	0.103	99.8	75-125
Copper	50.8	8.50	"	42.5	8.47	99.5	75-125
Lead	10.2	8.50	"	4.25	8.11	48.3	75-125

QM-07

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Gutteresen D #30-68-1 HN

Metals by EPA 6000/7000 Series Methods - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3K0320 - EPA 3050B										
Matrix Spike (B3K0320-MS1)		Source: Y311056-01			Prepared: 11/03/2023 Analyzed: 11/07/2023					
Nickel	12.3	8.50	mg/kg	4.25	11.0	30.4	75-125			QM-07
Selenium	3.96	0.0850	"	4.25	0.158	89.3	75-125			
Silver	4.31	0.0850	"	4.25	0.0449	100	75-125			
Zinc	68.5	85.0	"	42.5	33.6	82.0	75-125			
Matrix Spike Dup (B3K0320-MSD1)		Source: Y311056-01			Prepared: 11/03/2023 Analyzed: 11/07/2023					
Arsenic	7.92	0.0950	mg/kg	4.75	2.81	108	75-125	24.7	20	QR-02
Barium	544	9.50	"	475	73.8	98.9	75-125	11.7	20	
Cadmium	4.95	0.0950	"	4.75	0.103	102	75-125	13.1	20	
Copper	56.7	9.50	"	47.5	8.47	101	75-125	11.0	20	
Lead	11.1	9.50	"	4.75	8.11	63.8	75-125	9.17	20	QM-07
Nickel	11.6	9.50	"	4.75	11.0	13.6	75-125	5.40	20	QM-07
Selenium	4.48	0.0950	"	4.75	0.158	91.0	75-125	12.5	20	
Silver	4.87	0.0950	"	4.75	0.0449	102	75-125	12.3	20	
Zinc	75.1	95.0	"	47.5	33.6	87.4	75-125	9.28	20	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC

8000 W 44th Ave

Wheat Ridge CO 80033

Andrew Newberry

Project Number: [none]

Project: Noble - Guttersen D #30-68-1 HN

Notes and Definitions

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

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 at a wet weight basis.

Origins Laboratory, Inc.



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