

Wellhead Closure Checklist

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

Additional attachments (optional): <u> </u>		Pit Closure <u> </u>		Tank Battery Closure <u> </u>		Flowline Closure <u> </u>		Partially Buried Vault Closure <u> </u>
Site Name & COGCC Facility Number: Borough C #23-30D		Date: 02/16/23					Remediation Project #: 21022	
Associated Wells: 05-123-34352		Age of Site: years					Number of Photos Attached: 1	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.309280 / -104.522148							Estimated Facility Size (acres): <u> </u>	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Good condition								
USCS Soil Type: clayey SAND				Estimated Depth to Groundwater: 10-15'				
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	05-123-34352							
Age	years							
Condition of surface around wellhead	Good - Per Crew							
PID Readings	N/A - Excavated upon arrival							
Condition of subsurface (staining present)	Good - No odor/no staining							
PID Readings	1.2	2.6	1.3	1.7	1.3			
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01			
Photo Number(s)	See photo log							
Other observations regarding wellheads: Well casing cut/capped following assessment								
Summary								
Was impacted soil identified? (No) Yes - less than 10 cubic yards Yes - more than 10 cubic yards								
Total number of samples field screened: 5				Total number of samples collected: 5				
Highest PID Reading: 2.6				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:				
N/A								
Is additional investigation required?								
Was groundwater encountered during the investigation? (No) Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils								
Measured depth to groundwater:				Was remedial groundwater removal conducted? Yes No				
Date Groundwater was encountered:				Commencement date of removal:				
Sheen on groundwater? Yes No				Volume of groundwater removed prior to sampling:				
Free product observed? Yes No				Volume of groundwater removed post sampling:				
Total number of samples collected:				Total Volume of groundwater removed:				
Total number of samples submitted to lab for analysis:								

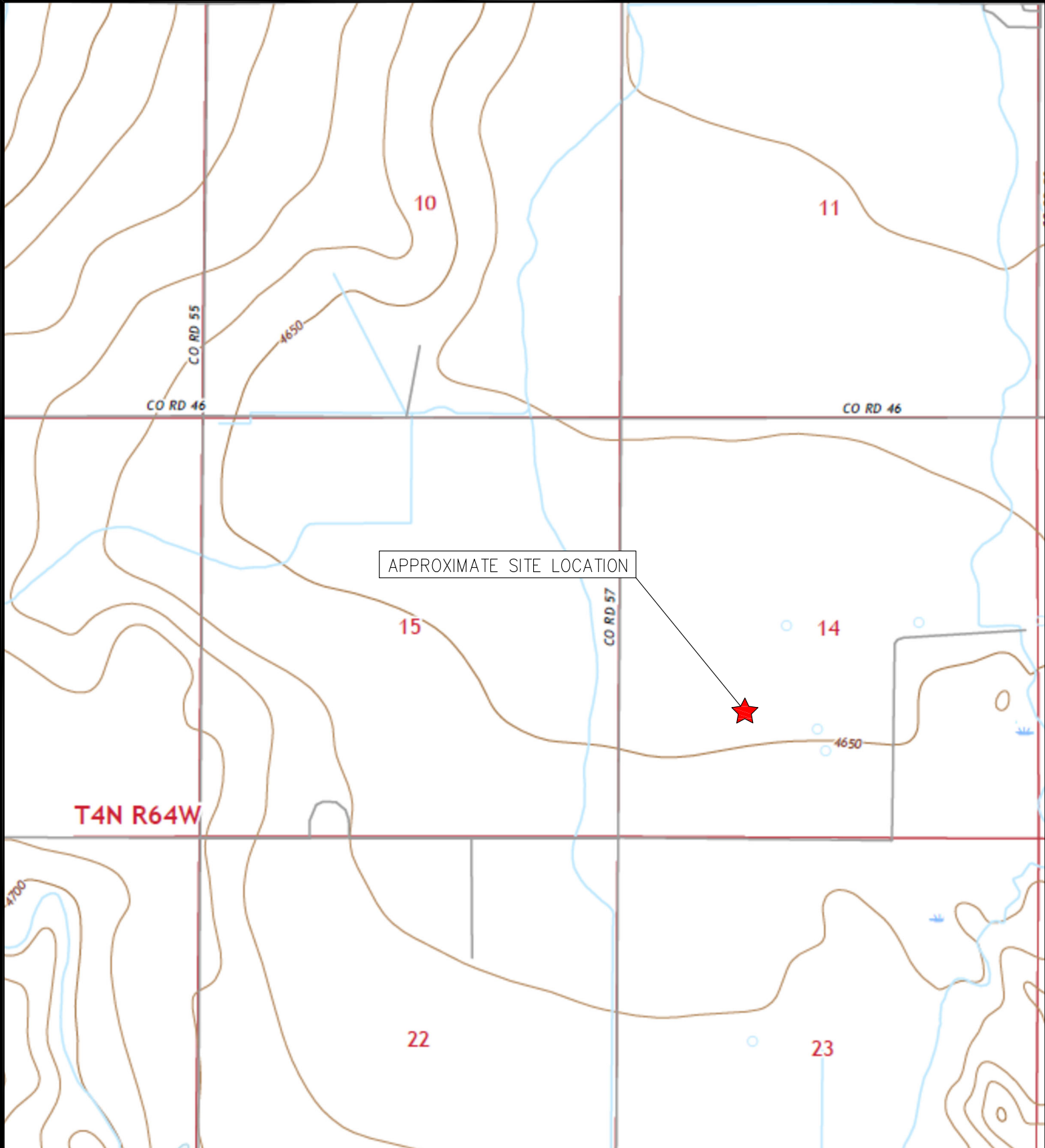


FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map



TOPOGRAPHIC SITE LOCATION MAP
 BUROUGH C #23-30D
 CLOSURE ASSESSMENT
 40.309280 / -104.522148
 NE¼ SW¼ SEC.14 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-34352
 REMEDIATION # 21022

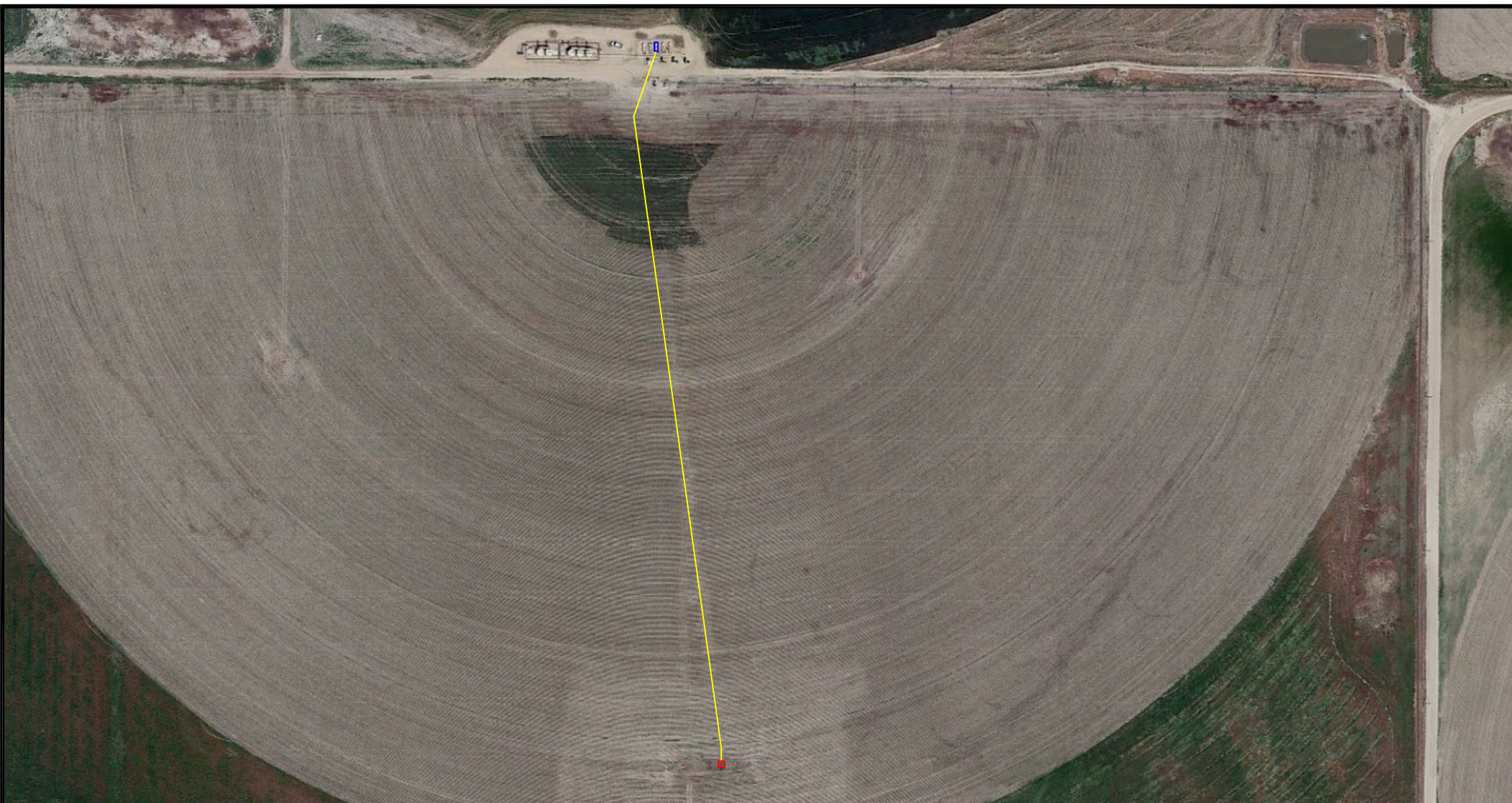


EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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

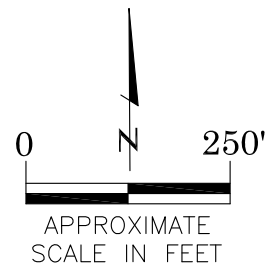
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,
 VALLEY VIEW SCHOOL, CO QUADRANGLE 2022

FIGURE NO. 1



LEGEND

- FORMER BUROUGH C #23-30D WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP

BUROUGH C #23-30D
 CLOSURE ASSESSMENT
 40.309280 / -104.522148
 NE¼ SW¼ SEC.14 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-34352
 REMEDIATION # 21022

FIGURE NO.

2

DRAWN BY:

EL



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LEGEND

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

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)
R = TPH-RRO (mg/kg)
1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)
Brn= BORON (mg/L)
EC = SPECIFIC CONDUCTANCE (mmhos/cm)
SAR= SODIUM ADSORPTION RATIO
pH = pH (pH UNITS)
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 COGCC TABLE 915-1 REGULATORY LIMITS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

SOIL ANALYTICAL MAP
BUROUGH C #23-30D
CLOSURE ASSESSMENT
40.309280 / -104.522148
NE¼ SW¼ SEC.14 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-34352
REMEDATION # 21022

FIGURE NO.
3

DRAWN BY:
EL





TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
BUROUGH C #23-30D
CLOSURE ASSESSMENT
40.309280 / -104.522148
NE¼ SW¼ SEC.14 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-34352
REMEDATION # 21022

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.309297 / -104.522156)	02/16/23	5	1.2	N
WH-SS-02 @ 5' (40.309285 / -104.522140)	02/16/23	5	2.6	N
WH-SS-03 @ 5' (40.309273 / -104.522156)	02/16/23	5	1.3	N
WH-SS-04 @ 5' (40.309284 / -104.522169)	02/16/23	5	1.7	N
WH-FS-01 @ 6' (40.309285 / -104.522155)	02/16/23	6	1.3	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
Borough C #23-30D
CLOSURE ASSESSMENT
40.309280 / -104.522148
NE¼ SW¼ SEC.14 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-34352
REMEDIAL # 21022

Sample Location				WH-FS-01 @ 6'
(Latitude / Longitude)				(40.309285 / -104.522155)
Sample Date				2/16/2023
Sample Depth				6'
PID Reading (ppm-v)				1.3
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
Toluene	mg/kg	490	0.69	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	<0.00200
Total Xylenes	mg/kg	58	9.9	<0.00200
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	<0.00200
TOTAL PETROLEUM HYDROCARBONS				
TPH-GRO	mg/kg	500	--	<0.200
TPH-DRO	mg/kg	500	--	<25.0
TPH-RRO	mg/kg	500	--	<100
POLYCYCLIC AROMATIC HYDROCARBONS				
1-Methyl-naphthalene	mg/kg	18	0.006	<0.00549
2-Methyl-naphthalene	mg/kg	24	0.019	<0.0101
Acenaphthene	mg/kg	360	0.55	0.00438
Anthracene	mg/kg	1800	5.8	<0.00335
Benzo(a)-anthracene	mg/kg	1.1	0.011	0.00318
Benzo(a)-pyrene	mg/kg	0.11	0.24	<0.00335
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	<0.00335
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.00335
Chrysene	mg/kg	110	9	0.0123
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.00335
Fluoranthene	mg/kg	240	8.9	<0.00335
Fluorene	mg/kg	240	0.54	0.00974
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	<0.00335
Naphthalene	mg/kg	2	0.0038	<0.00380
Pyrene	mg/kg	180	1.3	0.00597
SOIL SUITABILITY (Inorganics)				
Boron	mg/L	2	--	0.295
pH	standard unit	6-8.3	--	8.13
Sodium Adsorption Ratio (SAR)	--	<6	--	3.28
Specific Conductance (EC)	mmhos/cm	<4	--	0.844
COGCC = Colorado Oil and Gas Conservation Commission		VOCs = Volatile Organic Compounds		
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

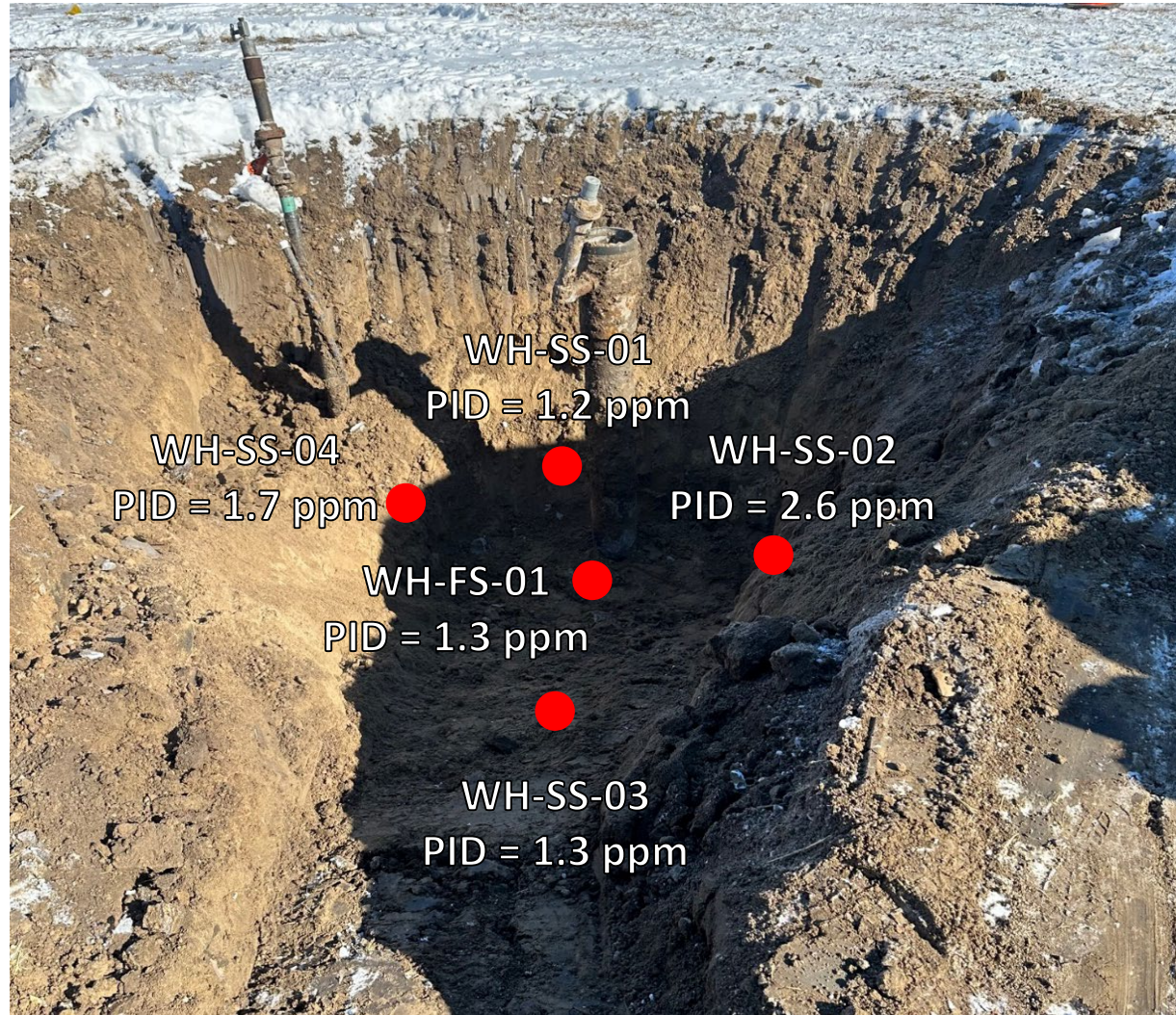
Borough C #23-30D
API # 05-123-34352
Remediation # 21022

Closure Assessment

February 2023



Wellhead Excavation – 02/16/23



Looking north

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Report



February 24, 2023

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Burough C #23-30D

Project Number - [none]

Attached are your analytical results for Noble - Burough C #23-30D received by Origins Laboratory, Inc. February 16, 2023. This project is associated with Origins project number Y302342-01.

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 - Borough C #23-30D

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y302342-01	Soil	February 16, 2023 10:18	02/16/2023 16:36

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Burough C #23-30D

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y302342

Client: Eagle

Client Project ID: Burrough C #23-30D

Checklist Completed by: JG/DE

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

Date/time completed: 2/17/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 1.9 °C 1 / _____ °C 1 / _____ °C (Describe)

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 (Project Manager) [Signature]

Date/Time Reviewed 2/17/23

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Borough C #23-30D

WH-FS-01@6'

2/16/2023 10:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y302342-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.295	0.100	mg/L	1	B3B2005	02/20/2023	02/21/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B1704	02/17/2023	02/17/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	90.0 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B1725	02/17/2023	02/19/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Burough C #23-30D

WH-FS-01@6'

2/16/2023 10:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y302342-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	97.6 %		70-130			B3B17 25	02/17/2023	02/19/2023	
Surrogate: Toluene-d8	95.3 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.48		0.499	meq/L	10	[CALC]	02/20/2023	02/21/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	4.21		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00549	0.0101	mg/Kg	5	L665476	02/21/2023	02/22/2023	
2-Methylnaphthalene	ND	0.00972	0.0101	"	"	"	"	"	
Acenaphthene	0.00438	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	0.00318	0.00247	0.00335	"	"	"	"	"	J
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	0.0123	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	

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 - Borough C #23-30D

WH-FS-01@6'

2/16/2023 10:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y302342-01 (Soil)

PAH by 8270D SIM

Fluorene	0.00974	0.00143	0.00335	mg/Kg	5	L665476	02/21/2023	02/22/2023
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"
Naphthalene	ND	0.0073	0.0101	"	"	"	"	"
Pyrene	0.00597	0.00322	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	61 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	70.6 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	64 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.13	pH Units	1	B3B2008	02/20/2023	02/21/2023
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SAR by 20B Saturated Paste

SAR	3.28	SAR	1	B3B2004	02/20/2023	02/21/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.844	0.00500	mmhos/cm	1	B3B2008	02/20/2023	02/21/2023
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Borough C #23-30D

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 B3B1704 - EPA 3580										
Blank (B3B1704-BLK1)					Prepared: 02/17/2023 Analyzed: 02/17/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	28		"	24.9		114	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 - Borough C #23-30D

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 B3B1704 - EPA 3580

LCS (B3B1704-BS1)

Prepared: 02/17/2023 Analyzed: 02/17/2023

Diesel (C10-C28)	993	50.0	mg/kg	1000		99.3	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.6	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 - Borough C #23-30D

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 B3B1704 - EPA 3580

Matrix Spike (B3B1704-MS1)		Source: Y302328-01			Prepared: 02/17/2023 Analyzed: 02/17/2023					
Diesel (C10-C28)	990	50.0	mg/kg	1000	ND	99.0	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	70-130			
Surrogate: o-Terphenyl	44		"	49.8		89.1	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Borough C #23-30D

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 B3B1704 - EPA 3580

Matrix Spike Dup (B3B1704-MSD1)		Source: Y302328-01			Prepared: 02/17/2023 Analyzed: 02/17/2023					
Diesel (C10-C28)	985	50.0	mg/kg	1000	ND	98.5	70-130	0.517	35	
Residual Range Organics (C28-C40)	988	200	"	1000	ND	98.8	70-130	1.35	35	
Surrogate: o-Terphenyl	46		"	49.8		92.4	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 - Burrough C #23-30D

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 B3B1725 - EPA 5030 (soil)										
Blank (B3B1725-BLK1)					Prepared: 02/17/2023 Analyzed: 02/19/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.4	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 - Borough C #23-30D

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 B3B1725 - EPA 5030 (soil)										
LCS (B3B1725-BS1)					Prepared: 02/17/2023 Analyzed: 02/19/2023					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.0979	0.00200	"	0.100		97.9	70-130			
Naphthalene	0.0978	0.00380	"	0.100		97.8	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.0974	0.00200	"	0.100		97.4	70-130			
m,p-Xylene	0.202	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.10		"	0.125		83.1	70-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Burrough C #23-30D

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 B3B1725 - EPA 5030 (soil)

Matrix Spike (B3B1725-MS1)		Source: Y302328-01			Prepared: 02/17/2023 Analyzed: 02/19/2023					
1,2,4-Trimethylbenzene	0.0979	0.00200	mg/kg	0.100	ND	97.9	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Benzene	0.0960	0.00200	"	0.100	ND	96.0	70-130			
Ethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130			
Naphthalene	0.0741	0.00380	"	0.100	ND	74.1	70-130			
Toluene	0.0966	0.00200	"	0.100	ND	96.6	70-130			
o-Xylene	0.0976	0.00200	"	0.100	ND	97.6	70-130			
m,p-Xylene	0.206	0.00400	"	0.200	ND	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.4	70-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Burrough C #23-30D

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 B3B1725 - EPA 5030 (soil)										
Matrix Spike Dup (B3B1725-MSD1)		Source: Y302328-01			Prepared: 02/17/2023 Analyzed: 02/19/2023					
1,2,4-Trimethylbenzene	0.0942	0.00200	mg/kg	0.100	ND	94.2	70-130	3.79	20	
1,3,5-Trimethylbenzene	0.0996	0.00200	"	0.100	ND	99.6	70-130	5.64	20	
Benzene	0.0970	0.00200	"	0.100	ND	97.0	70-130	1.08	20	
Ethylbenzene	0.0965	0.00200	"	0.100	ND	96.5	70-130	3.80	20	
Naphthalene	0.0811	0.00380	"	0.100	ND	81.1	70-130	8.97	20	
Toluene	0.0943	0.00200	"	0.100	ND	94.3	70-130	2.39	20	
o-Xylene	0.0947	0.00200	"	0.100	ND	94.7	70-130	3.04	20	
m,p-Xylene	0.198	0.00400	"	0.200	ND	99.0	70-130	3.80	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		86.4	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 - Burough C #23-30D

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3B2004 - Saturated Paste Metals

Blank (B3B2004-BLK1)

Prepared: 02/20/2023 Analyzed: 02/21/2023

SAR	0.00		SAR							U
Calcium PPM	ND	10.0	mg/L							U
Magnesium PPM	ND	10.0	"							U
Sodium PPM	ND	10.0	"							U

Duplicate (B3B2004-DUP1)

Source: Y302341-02

Prepared: 02/20/2023 Analyzed: 02/21/2023

Calcium PPM	478	10.0	mg/L		486			1.57	50	
SAR	0.00		SAR		15.0			200	200	U
Magnesium PPM	258	10.0	mg/L		247			4.30	50	
Sodium PPM	1730	10.0	"		1630			5.87	50	

Batch B3B2005 - DTPA Sorbitol Preparation

Blank (B3B2005-BLK1)

Prepared: 02/20/2023 Analyzed: 02/21/2023

Boron	ND	0.100	mg/L							U
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Duplicate (B3B2005-DUP1)

Source: Y302338-01

Prepared: 02/20/2023 Analyzed: 02/21/2023

Boron	0.0678	0.0983	mg/L		0.0654			3.64	50	U
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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Borough C #23-30D

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B2008 - Saturated Paste pH/EC										
Blank (B3B2008-BLK1)					Prepared: 02/20/2023 Analyzed: 02/21/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B3B2008-DUP1)					Source: Y302341-02 Prepared: 02/20/2023 Analyzed: 02/21/2023					
Specific Conductance (EC)	9.49	0.00500	mmhos/cm		8.47			11.4	25	
pH	7.94		pH Units		7.94			0.00	25	

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Burrough C #23-30D

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L665476 - 3550B

LCSD (LCSD-L665476)

Prepared: 02/21/2023 Analyzed: 02/22/2023

Benzo(b)fluoranthene	0.15	0.00067	mg/Kg	0.167		89.8	30-130	15	30	
Benzo(k)fluoranthene	0.109	0.00067	"	0.167		65.2	30-130	13.8	30	
Naphthalene	0.117	0.00201	"	0.167		70	30-130	14.6	30	
Indeno(1,2,3-cd)pyrene	0.157	0.00067	"	0.167		94	30-130	15	30	
Fluorene	0.131	0.00067	"	0.167		78.4	30-130	11.2	30	
Fluoranthene	0.121	0.00067	"	0.167		72.4	30-130	11.3	30	
Dibenz(a,h)anthracene	0.171	0.00067	"	0.167		102	30-130	16.4	30	
Pyrene	0.113	0.00067	"	0.167		67.6	30-130	10.2	30	
Benzo(a)pyrene	0.142	0.00067	"	0.167		85	30-130	14.3	30	
Benzo(a)anthracene	0.154	0.00067	"	0.167		92.2	30-130	16.1	30	
Anthracene	0.139	0.00067	"	0.167		83.2	30-130	15.5	30	
Acenaphthene	0.127	0.00067	"	0.167		76	30-130	10.7	30	
2-Methylnaphthalene	0.121	0.00201	"	0.167		72.4	30-130	13.2	30	
Chrysene	0.131	0.00067	"	0.167		78.4	30-130	14.7	30	
1-Methylnaphthalene	0.114	0.00201	"	0.167		68.2	30-130	12	30	
Surrogate: Nitrobenzene-d5	68.7		"	0.333		68.7	29-110			
Surrogate: 2-Fluorobiphenyl	63.9		"	0.333		63.9	33-115			
Surrogate: 4-Terphenyl-d14	63.3		"	0.333		63.3	33-122			

LCS (LCS-L665476)

Prepared: 02/21/2023 Analyzed: 02/22/2023

Dibenz(a,h)anthracene	0.145	0.00067	mg/Kg	0.167		86.8	30-130			
Pyrene	0.102	0.00067	"	0.167		61	30-130			
Fluoranthene	0.108	0.00067	"	0.167		64.6	30-130			
Fluorene	0.117	0.00067	"	0.167		70	30-130			
Indeno(1,2,3-cd)pyrene	0.135	0.00067	"	0.167		80.8	30-130			
Acenaphthene	0.114	0.00067	"	0.167		68.2	30-130			
Chrysene	0.113	0.00067	"	0.167		67.6	30-130			

Origins Laboratory, Inc.



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Martin C Eckert III
Project Number: [none]
Project: Noble - Burough C #23-30D

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L665476 - 3550B

LCS (LCS-L665476)

Prepared: 02/21/2023 Analyzed: 02/22/2023

Naphthalene	0.101	0.00201	mg/Kg	0.167		60.4	30-130			
Benzo(b)fluoranthene	0.129	0.00067	"	0.167		77.2	30-130			
Benzo(a)pyrene	0.123	0.00067	"	0.167		73.6	30-130			
Anthracene	0.119	0.00067	"	0.167		71.2	30-130			
2-Methylnaphthalene	0.106	0.00201	"	0.167		63.4	30-130			
1-Methylnaphthalene	0.101	0.00201	"	0.167		60.4	30-130			
Benzo(a)anthracene	0.131	0.00067	"	0.167		78.4	30-130			
Benzo(k)fluoranthene	0.0949	0.00067	"	0.167		56.8	30-130			
Surrogate: Nitrobenzene-d5	69.9		"	0.333		69.9	29-110			
Surrogate: 4-Terphenyl-d14	66.3		"	0.333		66.3	33-122			
Surrogate: 2-Fluorobiphenyl	66.3		"	0.333		66.3	33-115			

LRB (LRB-L665476)

Prepared: 02/21/2023 Analyzed: 02/22/2023

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			

Origins Laboratory, Inc.



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Martin C Eckert III
Project Number: [none]
Project: Noble - Borough C #23-30D

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L665476 - 3550B

LRB (LRB-L665476)

Prepared: 02/21/2023 Analyzed: 02/22/2023

Anthracene	ND	0.00067	mg/Kg				-			
Surrogate: Nitrobenzene-d5	65.1		"	0.333	65.1		29-110			
Surrogate: 4-Terphenyl-d14	69.6		"	0.333	69.6		33-122			
Surrogate: 2-Fluorobiphenyl	61.2		"	0.333	61.2		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 - Burough C #23-30D

Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

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