

Wellhead Closure Checklist

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

Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure 7-28-23		Partially Buried Vault Closure	
Site Name & COGCC Facility Number:		Date:						Remediation Project #:	
Associated Wells:		Age of Site:						Number of Photos Attached:	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)							Estimated Facility Size (acres):		
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)									
USCS Soil Type:				Estimated Depth to Groundwater:					
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)									
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)									
Wellhead(s)									
Well API									
Age									
Condition of surface around wellhead									
PID Readings									
Condition of subsurface (staining present)									
PID Readings									
Sample taken?									
Location/Sample ID#									
Photo Number(s)									
Other observations regarding wellheads:									
Summary									
Was impacted soil identified? <div style="display: flex; justify-content: space-around;"> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards </div>									
Total number of samples field screened:				Total number of samples collected:					
Highest PID Reading:				Total number of samples submitted to lab for analysis:					
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? <div style="display: flex; justify-content: space-around;"> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils </div>									
Measured depth to groundwater:				Was remedial groundwater removal conducted? Yes No					
Date Groundwater was encountered:				Commencement date of removal:					
Sheen on groundwater? Yes No				Volume of groundwater removed prior to sampling:					
Free product observed? Yes No				Volume of groundwater removed post sampling:					
Total number of samples collected:				Total Volume of groundwater removed:					
Total number of samples submitted to lab for analysis:									



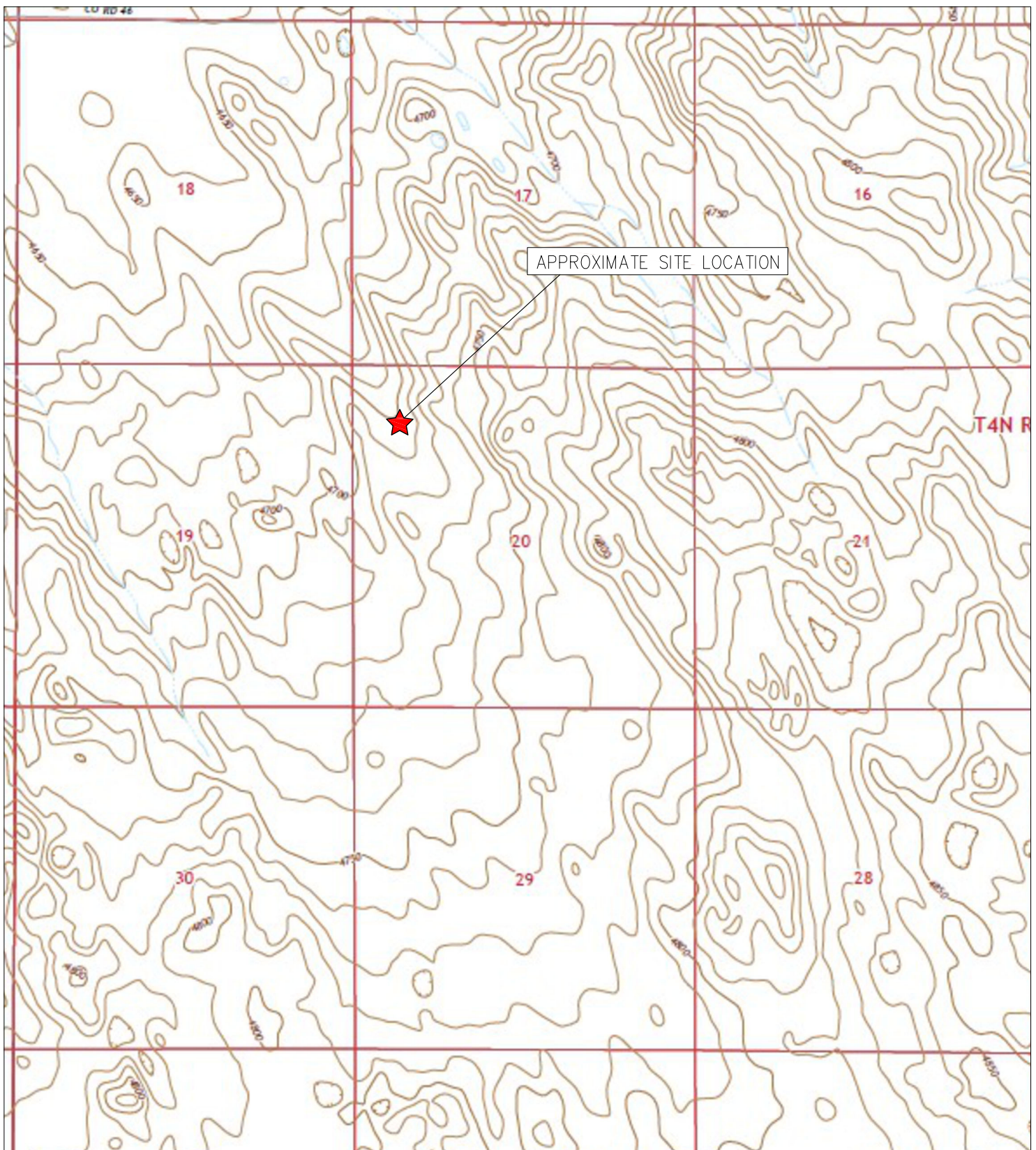
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Metals in Soil Map



TOPOGRAPHIC SITE LOCATION MAP
 GUTTERSEN STATE CC #20-4
 CLOSURE ASSESSMENT
 40.303200 / -104.469160
 NW¼ NW¼ SEC.20 T4N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-22279
 REMEDIATION # 28732



EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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

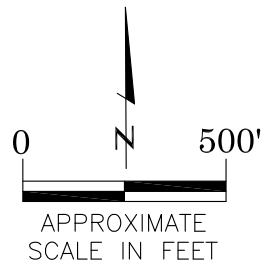
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP
 HARDIN, CO QUADRANGLE 2022

FIGURE NO. 1



LEGEND

- FORMER GUTTERSEN STATE CC #20-4 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE FLOWLINE LOCATION (ABANDONED)



AERIAL SITE LOCATION MAP
 GUTTERSEN STATE CC #20-4
 CLOSURE ASSESSMENT
 40.303200 / -104.469160
 NW¼ NW¼ SEC.20 T4N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-22279
 REMEDIATION # 28732

FIGURE NO.
2

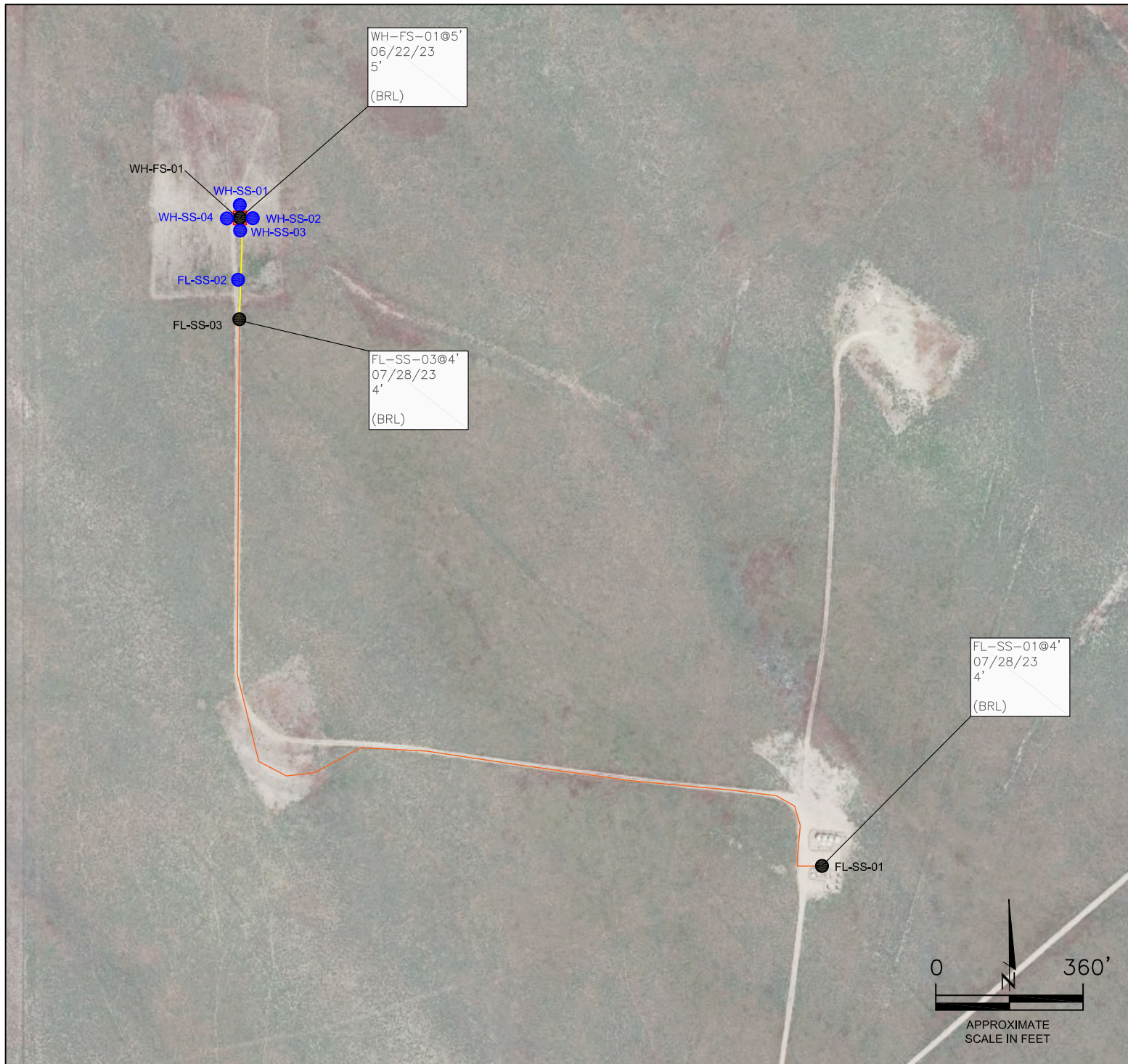
DRAWN BY:
JF



EAGLE

ENVIRONMENTAL
CONSULTING, LLC

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



LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE FLOWLINE LOCATION (ABANDONED)
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- 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 ECOM TABLE 915-1 REGULATORY LIMITS.

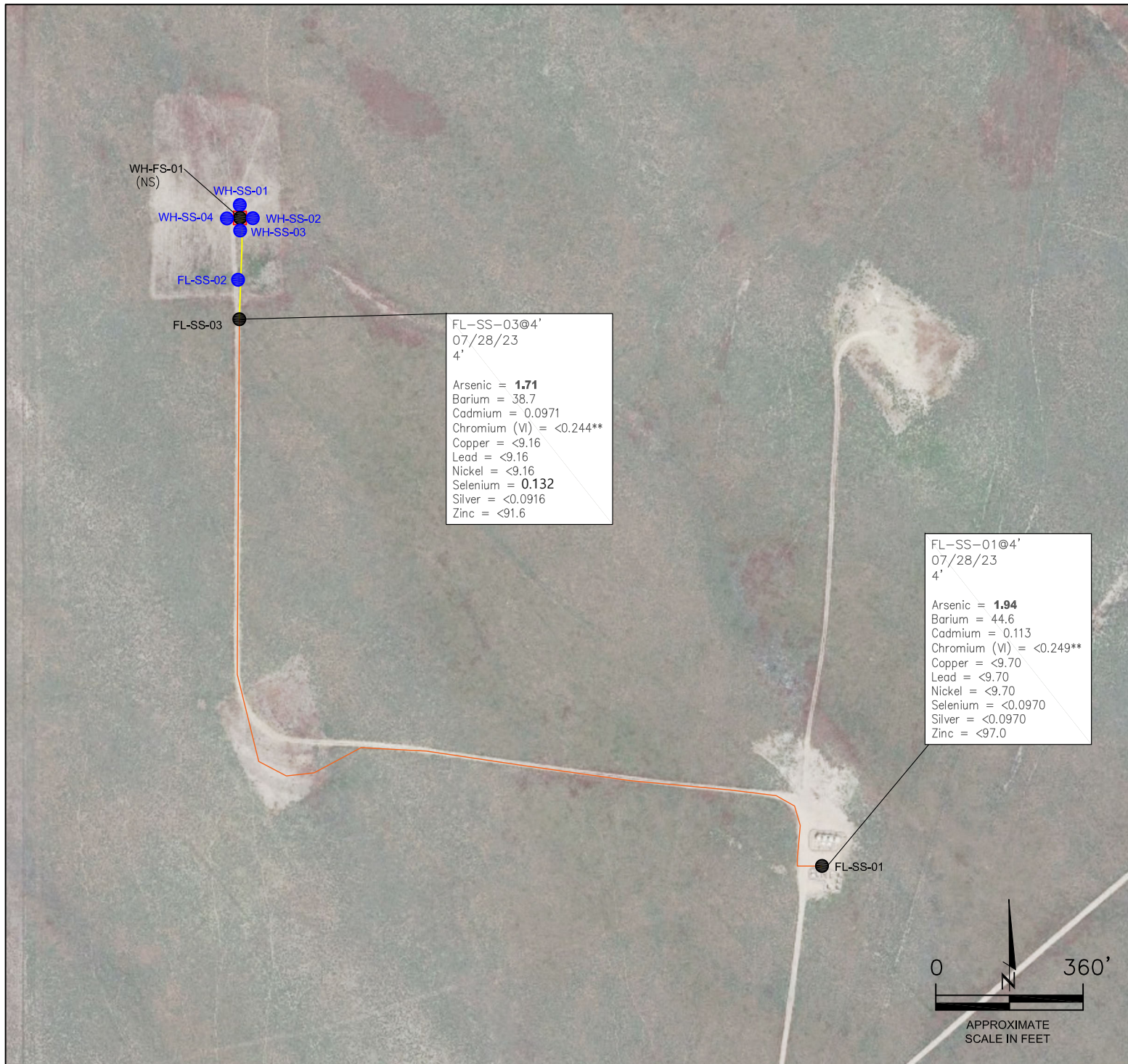
ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP
 GUTTERSEN STATE CC #20-4
 CLOSURE ASSESSMENT
 40.303200 / -104.469160
 NW¼ NW¼ SEC.20 T4N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-22279
 REMEDIATION # 28732

FIGURE NO.
3

DRAWN BY:
JF

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



LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE FLOWLINE LOCATION (ABANDONED)
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- 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

(NS) = NOT SAMPLED

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.

**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 STATE CC #20-4
CLOSURE ASSESSMENT
40.303200 / -104.469160
NW¼ NW¼ SEC.20 T4N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-22279
REMEDIATION # 28732

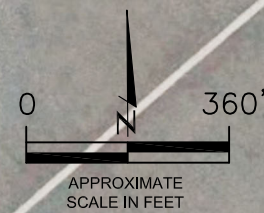


FIGURE NO.
4

DRAWN BY:
JF

EAGLE
ENVIRONMENTAL
CONSULTING, LLC

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



TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
GUTTERSEN STATE CC #20-4
CLOSURE ASSESSMENT
40.303200 / -104.469160
NW¼ NW¼ SEC.20 T4N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-22279
REMEDIAION # 28732

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @4' (40.303219 / -104.469165)	06/22/23	4	8.9	N
WH-SS-02 @ 4' (40.303204 / -104.469146)	06/22/23	4	8.4	N
WH-SS-03 @ 4' (40.303191 / -104.469165)	06/22/23	4	8.7	N
WH-SS-04 @ 4' (40.303205 / -104.469183)	06/22/23	4	10.7	N
WH-FS-01 @ 5' (40.303200 / -104.469160)	06/22/23	5	10.7	Y
Background-01 @ 2' (40.303179 / -104.469142)	06/22/23	2	9.4	N
FL-SS-01 @ 4' (40.298922 / -104.463997)	7/28/23	4	1.3	Y
FL-SS-02 @ 4' (40.302821 / -104.469175)	7/28/23	4	1.3	N
FL-SS-03 @ 4' (40.302569 / -104.469167)	7/28/23	4	2.4	Y
Background-02 @ 2' (40.303179 / -104.469142)	7/28/23	2	0.5	N
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
GUTTERSEN STATE CC #20-4
CLOSURE ASSESSMENT
40.303200 / -104.469160
NW¼ NW¼ SEC.20 T4N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-22279
REMEDIATION # 28732

Sample Location		WH-FS-01 @ 5'		FL-SS-01 @ 4'		FL-SS-03 @ 4'	
(Latitude / Longitude)		(40.303200 / -104.469160)		(40.298922 / -104.463997)		(40.302569 / -104.469167)	
Sample Date		6/22/2023		7/28/2023		7/28/2023	
Sample Depth		5'		4'		4'	
PID Reading (ppm-v)		10.7		1.3		2.4	
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	<0.00200	<0.00200
Toluene	mg/kg	490	0.69	--	<0.00200	<0.00200	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	--	<0.00200	<0.00200	<0.00200
Total Xylenes	mg/kg	58	9.9	--	<0.00200	<0.00200	<0.00200
Naphthalene	mg/kg	2	0.0038	--	<0.00380	<0.00380	<0.00380
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.00200	<0.00200	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.00200	<0.00200	<0.00200
TOTAL PETROLEUM HYDROCARBONS							
TPH-GRO	mg/kg	500	--	--	<0.200	<0.200	<0.200
TPH-DRO	mg/kg		--	--	<25.0	<25.0	<25.0
TPH-RRO	mg/kg		--	--	<100	<100	<100
POLYCYCLIC AROMATIC HYDROCARBONS							
1-Methyl-naphthalene	mg/kg	18	0.006	--	<0.00201	<0.00201	<0.00201
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.00201	<0.00201	<0.00201
Acenaphthene	mg/kg	360	0.55	--	<0.00067	<0.00067	0.000672
Anthracene	mg/kg	1800	5.8	--	<0.00067	<0.00067	0.00905
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.00067	0.00188	0.00193
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.00067	0.00318	0.00192
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.00067	0.0033	0.00131
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.00067	0.00193	0.00114
Chrysene	mg/kg	110	9	--	<0.00067	0.00319	0.0052
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.00067	0.000774	<0.00067
Fluoranthene	mg/kg	240	8.9	--	<0.00067	0.00487	0.0072
Fluorene	mg/kg	240	0.54	--	<0.00067	<0.00067	0.00217
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.00067	0.00149	<0.00067
Pyrene	mg/kg	180	1.3	--	<0.00067	0.00401	0.0056
SOIL SUITABILITY (Inorganics)							
Boron	mg/L	2	--	--	<0.0997	<0.100	<0.100
pH	standard unit	6-8.3	--	--	8.13	8.19	8.15
Sodium Adsorption Ratio (SAR)	--	<6	--	--	0.224	0.767	0.347
Specific Conductance (EC)	mmhos/cm	<4	--	--	0.152	0.323	0.251
METALS							
Arsenic	mg/kg	0.68	0.29	--	NA	1.94	1.71
Barium	mg/kg	15000	82	--	NA	44.6	38.7
Cadmium	mg/kg	71	0.38	--	NA	0.113	0.0971
Copper	mg/kg	3100	46	--	NA	<9.70	<9.16
Lead	mg/kg	400	14	--	NA	<9.70	<9.16
Nickel	mg/kg	1500	26	--	NA	<9.70	<9.16
Selenium	mg/kg	390	0.26	--	NA	<0.0970	0.132
Silver	mg/kg	390	0.8	--	NA	<0.0970	<0.0916
Zinc	mg/kg	23000	370	--	NA	<97.0	<91.6
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	NA	<0.249**	<0.244**
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. **Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg.							



ATTACHMENT A

Photo Log

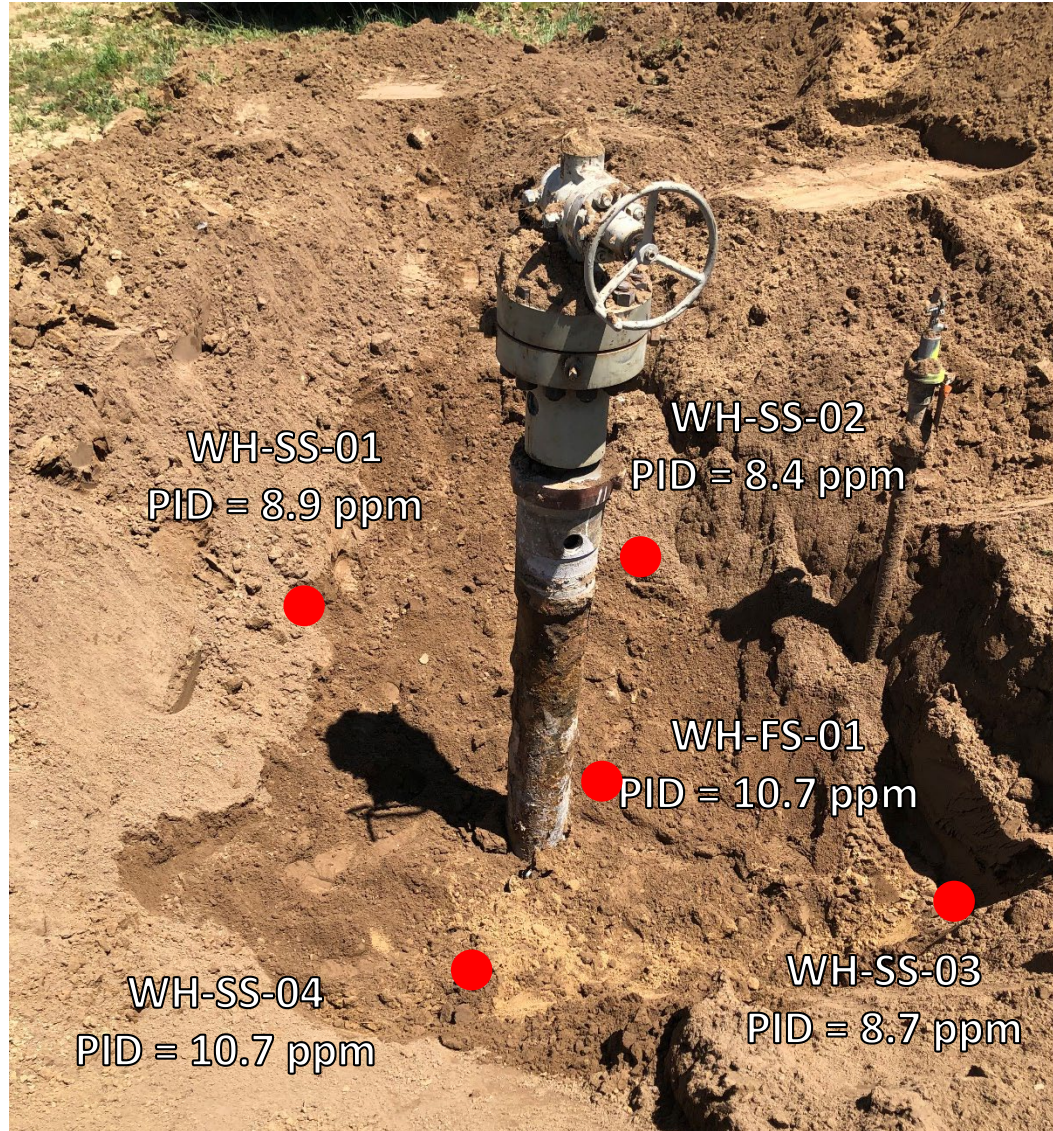
Guttersen State CC #20-4
API # 05-123-22279
Remediation # 28732

Closure Assessment

June - July 2023



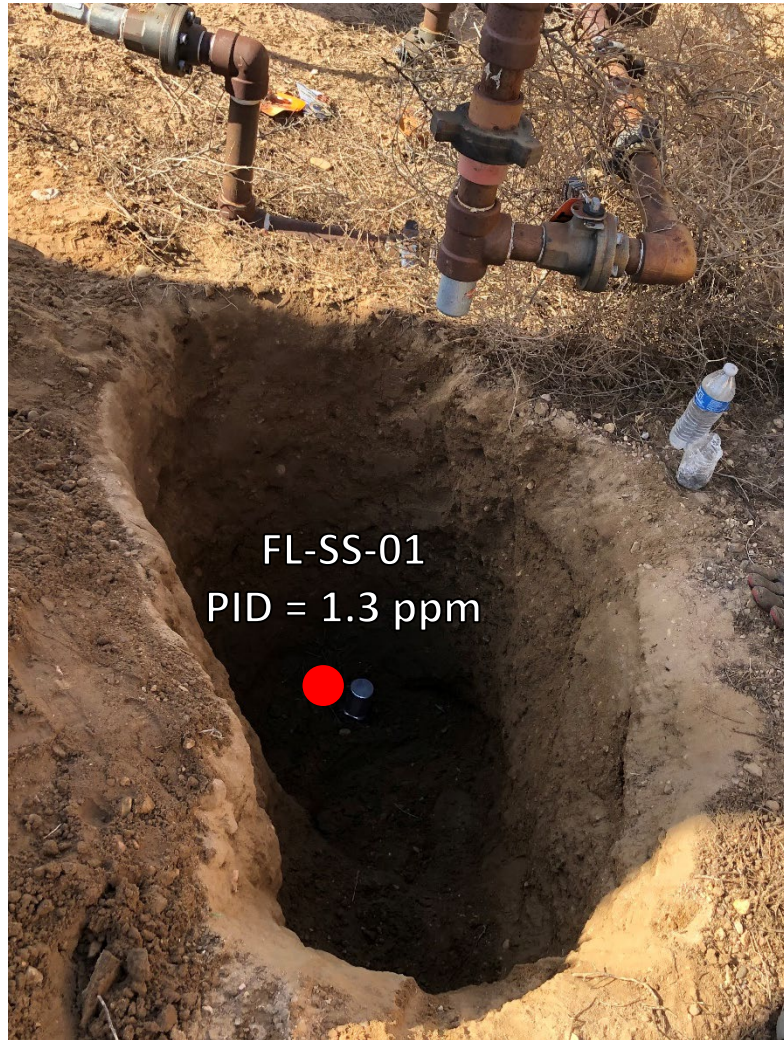
Wellhead Excavation – 06/22/23



Looking northeast

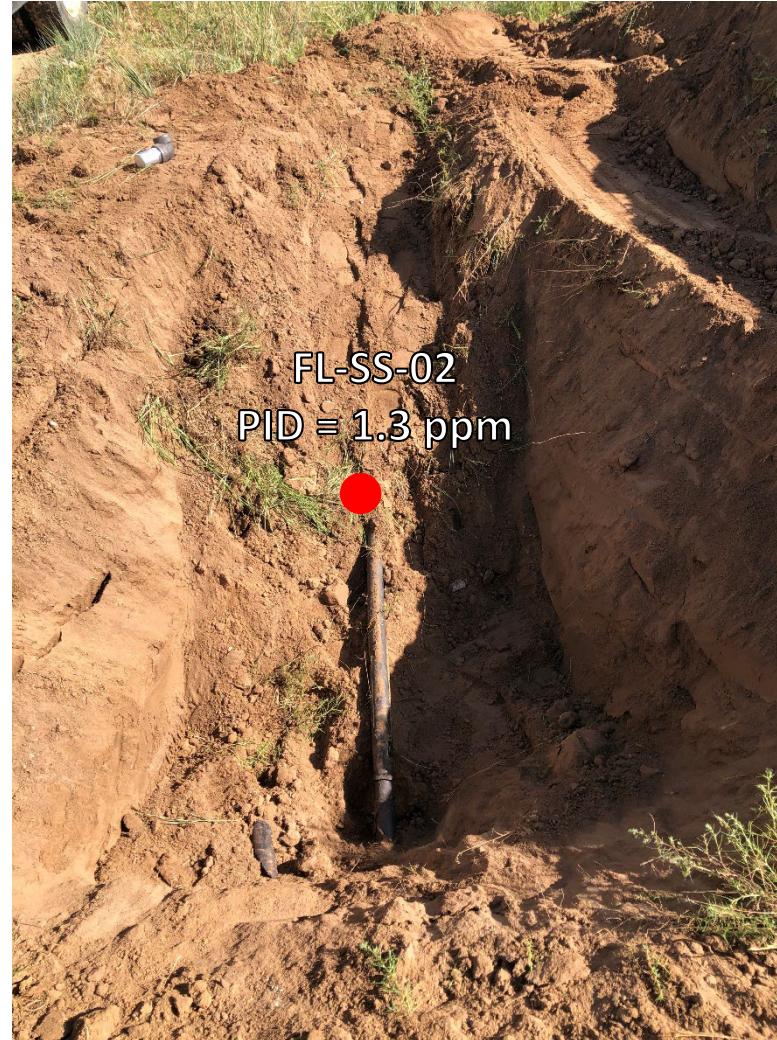
No petroleum hydrocarbon staining or odor observed

Flowline Assessment – 07/28/23



Looking south at Pt. B – Abandoned in place

No petroleum hydrocarbon staining or odor observed



Looking north at cut point south of wellhead

No petroleum hydrocarbon staining or odor observed



Looking north at cut point for abandonment to Pt B – sample submitted for analysis

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Report



July 07, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Guttersen State CC 20-04 Project Number - [none]

Attached are your analytical results for Noble - Guttersen State CC 20-04 received by Origins Laboratory, Inc. June 22, 2023. This project is associated with Origins project number Y306615-01.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Gutterson State CC 20-04

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@5'	Y306615-01	Soil	June 22, 2023 12:28	06/22/2023 16:30

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: YB006015

Client: Eagle

Client Project ID: Gutterson State CC 20-0

Checklist Completed by: EHS

Shipped Via: HP

Date/time completed: 6/22/23

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

Airbill #: N/A

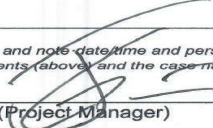
Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 1 / 2 °c 1 / 1 °c 1 / 1 °c (Describe) _____ °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⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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)			/	
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 6/26/23

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

WH-FS-01@5'
6/22/2023 12:28:00PM

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

Origins Laboratory, Inc.
Y306615-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0997	mg/L	1	B3F2708	06/27/2023	06/28/2023	
-------	----	--	--------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3F2303	06/23/2023	06/28/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.9 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3F2338	06/23/2023	06/25/2023	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.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

WH-FS-01@5'
6/22/2023 12:28:00PM

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

Origins Laboratory, Inc.
Y306615-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	87.5 %		70-130			B3F23 38	06/23/2023	06/25/2023	
Surrogate: Toluene-d8	93.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	80.0 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.25		0.499	meq/L	10	[CALC]	06/26/2023	06/27/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L690645	07/03/2023	07/05/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
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	"	"	"	"	"	

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

WH-FS-01@5'

6/22/2023 12:28:00PM

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

Waypoint Analytical, LLC.
Y306615-01 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L690645	07/03/2023	07/05/2023	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	45.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	49.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	46.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.13			pH Units	1	B3F2614	06/26/2023	06/27/2023	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	0.224			SAR	1	B3F2605	06/26/2023	06/27/2023	
-----	-------	--	--	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.152		0.00500	mmhos/cm	1	B3F2614	06/26/2023	06/27/2023	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

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.

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

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 B3F2303 - EPA 3550B										
Blank (B3F2303-BLK1)										
					Prepared: 06/23/2023 Analyzed: 06/28/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		97.7	50-150			

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

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 B3F2303 - EPA 3550B

LCS (B3F2303-BS1)

Prepared: 06/23/2023 Analyzed: 06/28/2023

Diesel (C10-C28)	917	50.0	mg/kg	1000		91.7	70-130			
Residual Range Organics (C28-C40)	897	200	"	1000		89.7	70-130			
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

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 B3F2303 - EPA 3550B

Matrix Spike (B3F2303-MS1)	Source: Y306575-01			Prepared: 06/23/2023 Analyzed: 06/28/2023						
Diesel (C10-C28)	984	50.0	mg/kg	1000	ND	98.4	70-130			
Residual Range Organics (C28-C40)	989	200	"	1000	ND	98.9	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Guttersen State CC 20-04

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 B3F2303 - EPA 3550B

Matrix Spike Dup (B3F2303-MSD1)	Source: Y306575-01			Prepared: 06/23/2023 Analyzed: 06/28/2023						
Diesel (C10-C28)	986	50.0	mg/kg	1000	ND	98.6	70-130	0.134	35	
Residual Range Organics (C28-C40)	959	200	"	1000	ND	95.9	70-130	3.07	35	
<i>Surrogate: o-Terphenyl</i>	45		"	49.8		90.3	50-150			

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Guttersen State CC 20-04

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 B3F2338 - EPA 5030 (soil)

Blank (B3F2338-BLK1)

Prepared: 06/23/2023 Analyzed: 06/25/2023

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	0.11		"	0.125	87.3		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	93.7		70-130			
Surrogate: 4-Bromofluorobenzene	0.10		"	0.125	83.9		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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

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 B3F2338 - EPA 5030 (soil)

LCS (B3F2338-BS1)

Prepared: 06/23/2023 Analyzed: 06/25/2023

1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Benzene	0.118	0.00200	"	0.100		118	70-130			
Ethylbenzene	0.0997	0.00200	"	0.100		99.7	70-130			
Naphthalene	0.0985	0.00380	"	0.100		98.5	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.100	0.00200	"	0.100		100	70-130			
m,p-Xylene	0.210	0.00400	"	0.200		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		87.5	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

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 B3F2338 - EPA 5030 (soil)

Matrix Spike (B3F2338-MS1)	Source: Y306576-01			Prepared: 06/23/2023 Analyzed: 06/25/2023						
1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100	ND	110	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100	ND	112	70-130			
Benzene	0.119	0.00200	"	0.100	ND	119	70-130			
Ethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130			
Naphthalene	0.0911	0.00380	"	0.100	ND	91.1	70-130			
Toluene	0.106	0.00200	"	0.100	ND	106	70-130			
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130			
m,p-Xylene	0.222	0.00400	"	0.200	ND	111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		80.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.7	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

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 B3F2338 - EPA 5030 (soil)

Matrix Spike Dup (B3F2338-MSD1)	Source: Y306576-01			Prepared: 06/23/2023 Analyzed: 06/25/2023						
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130	6.75	20	
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	8.48	20	
Benzene	0.117	0.00200	"	0.100	ND	117	70-130	2.22	20	
Ethylbenzene	0.0962	0.00200	"	0.100	ND	96.2	70-130	10.2	20	
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130	10.3	20	
Toluene	0.100	0.00200	"	0.100	ND	100	70-130	5.76	20	
o-Xylene	0.0981	0.00200	"	0.100	ND	98.1	70-130	7.06	20	
m,p-Xylene	0.203	0.00400	"	0.200	ND	101	70-130	9.02	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		87.6	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3F2605 - Saturated Paste Metals

Blank (B3F2605-BLK1)

Prepared: 06/26/2023 Analyzed: 06/27/2023

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

Duplicate (B3F2605-DUP1)

Source: Y306609-01

Prepared: 06/26/2023 Analyzed: 06/27/2023

Calcium PPM	26.6	10.0	mg/L		34.8			26.8	50	
SAR	0.00		SAR		0.260			200	200	
Magnesium PPM	4.97	10.0	mg/L		6.30			23.6	50	
Sodium PPM	6.26	10.0	"		6.36			1.58	50	

Batch B3F2708 - DTPA Sorbitol Preparation

Blank (B3F2708-BLK1)

Prepared: 06/27/2023 Analyzed: 06/28/2023

Boron	ND	0.100	mg/L							
-------	----	-------	------	--	--	--	--	--	--	--

Duplicate (B3F2708-DUP1)

Source: Y306609-01

Prepared: 06/27/2023 Analyzed: 06/28/2023

Boron	0.0744	0.101	mg/L		0.0972			26.6	50	
-------	--------	-------	------	--	--------	--	--	------	----	--

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutttersen State CC 20-04

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3F2614 - Saturated Paste pH/EC										
Blank (B3F2614-BLK1)					Prepared: 06/26/2023 Analyzed: 06/27/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3F2614-DUP1)					Source: Y306609-01 Prepared: 06/26/2023 Analyzed: 06/27/2023					
Specific Conductance (EC)	0.227	0.00500	mmhos/cm		0.282			21.5	25	
pH	8.29		pH Units		8.34			0.601	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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch L690645 - 3550B

MSD (L 94282-MSD-L690645)		Source: 94282			Prepared: 07/03/2023 Analyzed: 07/05/2023					
Chrysene	0.122	0.00067	mg/Kg	0.163	<0.000624	74.8	30-130	4.8	30	
Pyrene	0.13	0.00067	"	0.163	<0.000643	79.7	30-130	5.2	30	
Indeno(1,2,3-cd)pyrene	0.102	0.00067	"	0.163	<0.000627	62.5	30-130	12.8	30	
Fluorene	0.128	0.00067	"	0.163	<0.000286	78.5	30-130	3.8	30	
Dibenz(a,h)anthracene	0.14	0.00067	"	0.163	<0.000614	85.8	30-130	18.1	30	
Benzo(k)fluoranthene	0.125	0.00067	"	0.163	<0.000437	76.6	30-130	5.4	30	
1-Methylnaphthalene	0.107	0.00201	"	0.163	<0.00109	65.6	30-130	3.6	30	
Fluoranthene	0.127	0.00067	"	0.163	<0.000394	77.9	30-130	4.6	30	
2-Methylnaphthalene	0.107	0.00201	"	0.163	<0.00194	65.6	30-130	3.6	30	
Benzo(b)fluoranthene	0.0999	0.00067	"	0.163	<0.000585	61.2	30-130	4.9	30	
Acenaphthene	0.116	0.00067	"	0.163	<0.000304	71.1	30-130	3.3	30	
Anthracene	0.135	0.00067	"	0.163	<0.000334	82.8	30-130	4.3	30	
Benzo(a)anthracene	0.117	0.00067	"	0.163	<0.000493	71.7	30-130	2.5	30	
Benzo(a)pyrene	0.126	0.00067	"	0.163	<0.000468	77.3	30-130	5.4	30	
Surrogate: 2-Fluorobiphenyl	52.2		"	0.327	137	52.2	33-115			
Surrogate: Nitrobenzene-d5	52.2		"	0.327	139	52.2	29-110			
Surrogate: 4-Terphenyl-d14	63.9		"	0.327	165	63.9	33-122			

MS (L 94282-MS-L690645)		Source: 94282			Prepared: 07/03/2023 Analyzed: 07/05/2023					
Benzo(b)fluoranthene	0.105	0.00067	mg/Kg	0.167	<0.000585	62.8	30-130			
Indeno(1,2,3-cd)pyrene	0.116	0.00067	"	0.167	<0.000627	69.4	30-130			
Fluorene	0.133	0.00067	"	0.167	<0.000286	79.6	30-130			
Fluoranthene	0.133	0.00067	"	0.167	<0.000394	79.6	30-130			
Dibenz(a,h)anthracene	0.168	0.00067	"	0.167	<0.000614	101	30-130			
Chrysene	0.128	0.00067	"	0.167	<0.000624	76.6	30-130			
Benzo(k)fluoranthene	0.132	0.00067	"	0.167	<0.000437	79	30-130			
1-Methylnaphthalene	0.111	0.00201	"	0.167	<0.00109	66.4	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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch L690645 - 3550B

MS (L 94282-MS-L690645)		Source: 94282			Prepared: 07/03/2023 Analyzed: 07/05/2023					
Benzo(a)anthracene	0.12	0.00067	mg/Kg	0.167	<0.000493	71.8	30-130			
Anthracene	0.141	0.00067	"	0.167	<0.000334	84.4	30-130			
Acenaphthene	0.12	0.00067	"	0.167	<0.000304	71.8	30-130			
2-Methylnaphthalene	0.111	0.00201	"	0.167	<0.00194	66.4	30-130			
Benzo(a)pyrene	0.133	0.00067	"	0.167	<0.000468	79.6	30-130			
Pyrene	0.137	0.00067	"	0.167	<0.000643	82	30-130			
Surrogate: Nitrobenzene-d5	54.6		"	0.333	139	54.6	29-110			
Surrogate: 4-Terphenyl-d14	66.3		"	0.333	165	66.3	33-122			
Surrogate: 2-Fluorobiphenyl	54.6		"	0.333	137	54.6	33-115			

LCS (LCS-L690645)					Prepared: 07/03/2023 Analyzed: 07/05/2023					
Benzo(k)fluoranthene	0.104	0.00067	mg/Kg	0.167		62.2	30-130			
Chrysene	0.118	0.00067	"	0.167		70.6	30-130			
Fluoranthene	0.123	0.00067	"	0.167		73.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0786	0.00067	"	0.167		47	30-130			
Benzo(b)fluoranthene	0.0742	0.00067	"	0.167		44.4	30-130			
Pyrene	0.125	0.00067	"	0.167		74.8	30-130			
Dibenz(a,h)anthracene	0.117	0.00067	"	0.167		70	30-130			
1-Methylnaphthalene	0.103	0.00201	"	0.167		61.6	30-130			
Benzo(a)anthracene	0.113	0.00067	"	0.167		67.6	30-130			
Anthracene	0.131	0.00067	"	0.167		78.4	30-130			
Acenaphthene	0.112	0.00067	"	0.167		67	30-130			
2-Methylnaphthalene	0.102	0.00201	"	0.167		61	30-130			
Fluorene	0.122	0.00067	"	0.167		73	30-130			
Benzo(a)pyrene	0.127	0.00067	"	0.167		76	30-130			
Surrogate: Nitrobenzene-d5	52.8		"	0.333		52.8	29-110			
Surrogate: 4-Terphenyl-d14	63.9		"	0.333		63.9	33-122			

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

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
Batch L690645 - 3550B										
LCS (LCS-L690645)					Prepared: 07/03/2023 Analyzed: 07/05/2023					
Surrogate: 2-Fluorobiphenyl	51.9		mg/Kg	0.333		51.9	33-115			
LRB (LRB-L690645)					Prepared: 07/03/2023 Analyzed: 07/05/2023					
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	"				-			
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	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	48.6		"	0.333		48.6	29-110			
Surrogate: 4-Terphenyl-d14	59.1		"	0.333		59.1	33-122			
Surrogate: 2-Fluorobiphenyl	50.7		"	0.333		50.7	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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Gutterson State CC 20-04

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.

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



August 10, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Guttersen State CC 20-04 Project Number - [none]

Attached are your analytical results for Noble - Guttersen State CC 20-04 received by Origins Laboratory, Inc. July 28, 2023. This project is associated with Origins project number Y307662-01.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Gutttersen State CC 20-04

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-01@4'	Y307662-01	Soil	July 28, 2023 9:00	07/28/2023 15:45
FL-SS-03@4'	Y307662-02	Soil	July 28, 2023 10:00	07/28/2023 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.

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4307662

Client: Eagle

Client Project ID: Gutterson State CC 20

Checklist Completed by: EHS

Shipped Via: HD

Date/time completed: 7/28/23

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

Airbill #: NA

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

Cooler Number/Temperature: 114 °C / _____ °C / _____ °C (Describe) _____ °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⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			/	
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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)			/	
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 7/31/23

Origins Laboratory, Inc.

[Signature]

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

FL-SS-01@4'

7/28/2023 9:00:00AM

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

Origins Laboratory, Inc.
Y307662-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B3H0213	08/02/2023	08/03/2023	
-------	----	--	-------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3G3102	07/31/2023	07/31/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	97.6 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0222	08/02/2023	08/03/2023	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.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

FL-SS-01@4'

7/28/2023 9:00:00AM

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

Origins Laboratory, Inc.
Y307662-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	119 %		70-130			B3H02 22	08/02/2023	08/03/2023	
Surrogate: Toluene-d8	97.1 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	93.0 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.62		0.499	meq/L	10	[CALC]	08/01/2023	08/02/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L696682	08/03/2023	08/03/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00188	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00318	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.0033	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00193	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00319	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.000774	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00487	0.000394	0.00067	"	"	"	"	"	

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

FL-SS-01@4'

7/28/2023 9:00:00AM

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

Waypoint Analytical, LLC.
Y307662-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L696682	08/03/2023	08/03/2023	
Indeno(1,2,3-cd)pyrene	0.00149	0.000627	0.00067	"	"	"	"	"	
Pyrene	0.00401	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	61.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	82.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	58.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.19			pH Units	1	B3H0116	08/01/2023	08/02/2023	
----	-------------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	0.767			SAR	1	B3H0111	08/01/2023	08/02/2023	
-----	--------------	--	--	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.323		0.00500	mmhos/cm	1	B3H0116	08/01/2023	08/02/2023	
---------------------------	--------------	--	---------	----------	---	---------	------------	------------	--

Table 915 metals by EPA 6020B

Arsenic	1.94		0.0970	mg/kg	10	B3G3112	07/31/2023	08/01/2023	
Barium	44.6		9.70	"	"	"	"	"	

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

FL-SS-01@4'

7/28/2023 9:00:00AM

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

Origins Laboratory, Inc.
Y307662-01 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.113		0.0970	mg/kg	10	B3G3112	07/31/2023	08/01/2023	
Copper	ND		9.70	"	"	"	"	"	
Lead	ND		9.70	"	"	"	"	"	
Nickel	ND		9.70	"	"	"	"	"	
Selenium	ND		0.0970	"	"	"	"	"	
Silver	ND		0.0970	"	"	"	"	"	
Zinc	ND		97.0	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.249	0.512	mg/Kg	1	L696548	07/28/2023	08/03/2023	
----------------------	----	-------	-------	-------	---	---------	------------	------------	--

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.

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

FL-SS-03@4'

7/28/2023 10:00:00AM

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

Origins Laboratory, Inc.
Y307662-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B3H0213	08/02/2023	08/03/2023	
-------	----	--	-------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3G3102	07/31/2023	07/31/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	95.9 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0222	08/02/2023	08/03/2023	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.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

FL-SS-03@4'

7/28/2023 10:00:00AM

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

Origins Laboratory, Inc.
Y307662-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	116 %		70-130			B3H02 22	08/02/2023	08/03/2023	
Surrogate: Toluene-d8	97.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.58		0.499	meq/L	10	[CALC]	08/01/2023	08/02/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L696682	08/03/2023	08/03/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.000672	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00905	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00193	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00192	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00131	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00114	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.0052	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.0072	0.000394	0.00067	"	"	"	"	"	

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

FL-SS-03@4'

7/28/2023 10:00:00AM

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

Waypoint Analytical, LLC.
Y307662-02 (Soil)

PAH by 8270D SIM

Fluorene	0.00217	0.000286	0.00067	mg/Kg	1	L696682	08/03/2023	08/03/2023	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Pyrene	0.0056	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	47.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	65 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	45 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.15			pH Units	1	B3H0116	08/01/2023	08/02/2023	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	0.347			SAR	1	B3H0111	08/01/2023	08/02/2023	
-----	-------	--	--	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.251		0.00500	mmhos/cm	1	B3H0116	08/01/2023	08/02/2023	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

Table 915 metals by EPA 6020B

Arsenic	1.71		0.0916	mg/kg	10	B3G3112	07/31/2023	08/01/2023	
Barium	38.7		9.16	"	"	"	"	"	

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

FL-SS-03@4'

7/28/2023 10:00:00AM

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

Origins Laboratory, Inc.
Y307662-02 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.0971		0.0916	mg/kg	10	B3G3112	07/31/2023	08/01/2023	
Copper	ND		9.16	"	"	"	"	"	
Lead	ND		9.16	"	"	"	"	"	
Nickel	ND		9.16	"	"	"	"	"	
Selenium	0.132		0.0916	"	"	"	"	"	
Silver	ND		0.0916	"	"	"	"	"	
Zinc	ND		91.6	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.501	mg/Kg	1	L696548	07/28/2023	08/03/2023	
----------------------	----	-------	-------	-------	---	---------	------------	------------	--

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.

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

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 B3G3102 - EPA 3550B										
Blank (B3G3102-BLK1)										
					Prepared: 07/31/2023 Analyzed: 07/31/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		96.3	50-150			

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Guttersen State CC 20-04

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 B3G3102 - EPA 3550B

LCS (B3G3102-BS1)

Prepared: 07/31/2023 Analyzed: 07/31/2023

Diesel (C10-C28)	1020	50.0	mg/kg	1000		102	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000		104	70-130			
Surrogate: o-Terphenyl	63		"	49.8		127	50-150			

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutttersen State CC 20-04

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 B3G3102 - EPA 3550B

Matrix Spike (B3G3102-MS1)	Source: Y307640-01			Prepared: 07/31/2023 Analyzed: 07/31/2023						
Diesel (C10-C28)	996	50.0	mg/kg	1000	ND	99.6	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130			
Surrogate: o-Terphenyl	47		"	49.8		95.0	50-150			

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Guttersen State CC 20-04

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 B3G3102 - EPA 3550B

Matrix Spike Dup (B3G3102-MSD1)	Source: Y307640-01		Prepared: 07/31/2023 Analyzed: 07/31/2023							
Diesel (C10-C28)	1130	50.0	mg/kg	1000	ND	113	70-130	13.0	35	
Residual Range Organics (C28-C40)	1170	200	"	1000	ND	117	70-130	14.1	35	
<i>Surrogate: o-Terphenyl</i>	<i>61</i>		<i>"</i>	<i>49.8</i>		<i>122</i>	<i>50-150</i>			

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Guttersen State CC 20-04

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 B3H0222 - EPA 5030 (soil)

Blank (B3H0222-BLK1)

Prepared: 08/02/2023 Analyzed: 08/03/2023

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	0.13		"	0.125	103		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	104		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	93.9		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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

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 B3H0222 - EPA 5030 (soil)

LCS (B3H0222-BS1)

Prepared: 08/02/2023 Analyzed: 08/03/2023

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.0814	0.00200	"	0.100		81.4	70-130			
Ethylbenzene	0.0960	0.00200	"	0.100		96.0	70-130			
Naphthalene	0.0976	0.00380	"	0.100		97.6	70-130			
Toluene	0.0888	0.00200	"	0.100		88.8	70-130			
o-Xylene	0.0971	0.00200	"	0.100		97.1	70-130			
m,p-Xylene	0.198	0.00400	"	0.200		99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

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 B3H0222 - EPA 5030 (soil)

Matrix Spike (B3H0222-MS1)	Source: Y307619-01			Prepared: 08/02/2023 Analyzed: 08/03/2023						
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	0.00182	100	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	0.00218	103	70-130			
Benzene	0.0882	0.00200	"	0.100	ND	88.2	70-130			
Ethylbenzene	0.105	0.00200	"	0.100	0.00740	97.8	70-130			
Naphthalene	0.111	0.00380	"	0.100	0.00122	110	70-130			
Toluene	0.100	0.00200	"	0.100	0.00638	93.8	70-130			
o-Xylene	0.107	0.00200	"	0.100	0.00388	104	70-130			
m,p-Xylene	0.220	0.00400	"	0.200	0.00968	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Guttersen State CC 20-04

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 B3H0222 - EPA 5030 (soil)

Matrix Spike Dup (B3H0222-MSD1)	Source: Y307619-01			Prepared: 08/02/2023 Analyzed: 08/03/2023						
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	0.00182	103	70-130	2.34	20	
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	0.00218	104	70-130	1.25	20	
Benzene	0.0912	0.00200	"	0.100	ND	91.2	70-130	3.26	20	
Ethylbenzene	0.109	0.00200	"	0.100	0.00740	102	70-130	3.64	20	
Naphthalene	0.131	0.00380	"	0.100	0.00122	130	70-130	16.8	20	
Toluene	0.0977	0.00200	"	0.100	0.00638	91.3	70-130	2.51	20	
o-Xylene	0.111	0.00200	"	0.100	0.00388	107	70-130	3.22	20	
m,p-Xylene	0.231	0.00400	"	0.200	0.00968	111	70-130	5.24	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		119	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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 B3G3112 - EPA 3050B

Blank (B3G3112-BLK1)

Prepared: 07/31/2023 Analyzed: 08/01/2023

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 (B3G3112-BS1)

Prepared: 07/31/2023 Analyzed: 08/01/2023

Arsenic	0.0514	0.000100	mg/kg	0.0500		103	80-120			
Barium	5.15	0.0100	"	5.00		103	80-120			
Cadmium	0.0530	0.000100	"	0.0500		106	80-120			
Copper	0.538	0.0100	"	0.500		108	80-120			
Lead	0.0526	0.0100	"	0.0500		105	80-120			
Nickel	0.0549	0.0100	"	0.0500		110	80-120			
Selenium	0.0502	0.000100	"	0.0500		100	80-120			
Silver	0.0524	0.000100	"	0.0500		105	80-120			
Zinc	0.506	0.100	"	0.500		101	80-120			

Matrix Spike (B3G3112-MS1)

Source: Y307463-03

Prepared: 07/31/2023 Analyzed: 08/01/2023

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.

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

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 B3G3112 - EPA 3050B

Matrix Spike (B3G3112-MS1)		Source: Y307463-03			Prepared: 07/31/2023 Analyzed: 08/01/2023					
Arsenic	7.42	0.0944	mg/kg	4.72	2.43	106	75-125			
Barium	585	9.44	"	472	73.7	108	75-125			
Cadmium	5.36	0.0944	"	4.72	0.283	108	75-125			
Copper	68.9	9.44	"	47.2	15.4	113	75-125			
Lead	22.9	9.44	"	4.72	15.0	168	75-125			QM-07
Nickel	11.4	9.44	"	4.72	5.17	132	75-125			QM-07
Selenium	4.85	0.0944	"	4.72	0.232	97.8	75-125			
Silver	5.06	0.0944	"	4.72	0.185	103	75-125			
Zinc	110	94.4	"	47.2	53.3	119	75-125			

Matrix Spike Dup (B3G3112-MSD1)		Source: Y307463-03			Prepared: 07/31/2023 Analyzed: 08/01/2023					
Arsenic	7.75	0.0949	mg/kg	4.74	2.43	112	75-125	4.34	20	
Barium	599	9.49	"	474	73.7	111	75-125	2.37	20	
Cadmium	5.57	0.0949	"	4.74	0.283	111	75-125	3.71	20	
Copper	74.8	9.49	"	47.4	15.4	125	75-125	8.22	20	
Lead	30.1	9.49	"	4.74	15.0	319	75-125	27.3	20	QM-07
Nickel	12.0	9.49	"	4.74	5.17	144	75-125	4.88	20	QM-07
Selenium	4.84	0.0949	"	4.74	0.232	97.2	75-125	0.134	20	
Silver	5.19	0.0949	"	4.74	0.185	106	75-125	2.60	20	
Zinc	128	94.9	"	47.4	53.3	156	75-125	15.0	20	QM-07

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3H0111 - Saturated Paste Metals

Blank (B3H0111-BLK1)

Prepared: 08/01/2023 Analyzed: 08/02/2023

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

Duplicate (B3H0111-DUP1)

Source: Y307660-01

Prepared: 08/01/2023 Analyzed: 08/02/2023

SAR	0.00		SAR		0.148			200	200	
Calcium PPM	62.2	10.0	mg/L		74.9			18.6	50	
Magnesium PPM	6.58	10.0	"		7.60			14.4	50	
Sodium PPM	1.63	10.0	"		1.59			2.48	50	

Batch B3H0213 - DTPA Sorbitol Preparation

Blank (B3H0213-BLK1)

Prepared: 08/02/2023 Analyzed: 08/03/2023

Boron	ND	0.100	mg/L							
-------	----	-------	------	--	--	--	--	--	--	--

Duplicate (B3H0213-DUP1)

Source: Y307660-01

Prepared: 08/02/2023 Analyzed: 08/03/2023

Boron	0.296	0.100	mg/L		0.275			7.49	50	
-------	-------	-------	------	--	-------	--	--	------	----	--

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutttersen State CC 20-04

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0116 - Saturated Paste pH/EC										
Blank (B3H0116-BLK1)					Prepared: 08/01/2023 Analyzed: 08/02/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3H0116-DUP1)					Source: Y307660-01 Prepared: 08/01/2023 Analyzed: 08/02/2023					
Specific Conductance (EC)	0.444	0.00500	mmhos/cm		0.504			12.7	25	
pH	8.25		pH Units		8.19			0.730	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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch L696682 - 3550B

MSD (L 88506-MSD-L696682)		Source: 88506			Prepared: 08/03/2023 Analyzed: 08/03/2023					
Anthracene	0.107	0.00067	mg/Kg	0.163	<0.000334	65.6	30-130	20.9	30	
Benzo(b)fluoranthene	0.0803	0.00067	"	0.163	<0.000585	49.2	30-130	24.7	30	
Benzo(a)anthracene	0.0873	0.00067	"	0.163	<0.000493	53.5	30-130	27.3	30	
Benzo(k)fluoranthene	0.0923	0.00067	"	0.163	<0.000437	56.6	30-130	21.9	30	
Pyrene	0.103	0.00067	"	0.163	<0.000643	63.1	30-130	22.4	30	
Indeno(1,2,3-cd)pyrene	0.0729	0.00067	"	0.163	<0.000627	44.7	30-130	19.3	30	
Fluoranthene	0.101	0.00067	"	0.163	<0.000394	61.9	30-130	24.3	30	
1-Methylnaphthalene	0.0823	0.00201	"	0.163	<0.00109	50.4	30-130	24.2	30	
Benzo(a)pyrene	0.1	0.00067	"	0.163	<0.000468	61.3	30-130	26	30	
Dibenz(a,h)anthracene	0.101	0.00067	"	0.163	<0.000614	61.9	30-130	22	30	
2-Methylnaphthalene	0.0818	0.00201	"	0.163	<0.00194	50.1	30-130	24.8	30	
Chrysene	0.0985	0.00067	"	0.163	<0.000624	60.4	30-130	25.2	30	
Acenaphthene	0.0872	0.00067	"	0.163	<0.000304	53.4	30-130	25.7	30	
Fluorene	0.0982	0.00067	"	0.163	<0.000286	60.2	30-130	25.5	30	
Surrogate: Nitrobenzene-d5	46.3		"	0.326	187	46.3	29-110			
Surrogate: 2-Fluorobiphenyl	50		"	0.326	198	50	33-115			
Surrogate: 4-Terphenyl-d14	62.2		"	0.326	292	62.2	33-122			

MS (L 88506-MS-L696682)		Source: 88506			Prepared: 08/03/2023 Analyzed: 08/03/2023					
Fluoranthene	0.129	0.00067	mg/Kg	0.167	<0.000394	77.2	30-130			
1-Methylnaphthalene	0.105	0.00201	"	0.167	<0.00109	62.8	30-130			
Dibenz(a,h)anthracene	0.126	0.00067	"	0.167	<0.000614	75.4	30-130			
Fluorene	0.127	0.00067	"	0.167	<0.000286	76	30-130			
Indeno(1,2,3-cd)pyrene	0.0885	0.00067	"	0.167	<0.000627	52.9	30-130			
2-Methylnaphthalene	0.105	0.00201	"	0.167	<0.00194	62.8	30-130			
Pyrene	0.129	0.00067	"	0.167	<0.000643	77.2	30-130			
Acenaphthene	0.113	0.00067	"	0.167	<0.000304	67.6	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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch L696682 - 3550B

MS (L 88506-MS-L696682)		Source: 88506			Prepared: 08/03/2023 Analyzed: 08/03/2023					
Anthracene	0.132	0.00067	mg/Kg	0.167	<0.000334	79	30-130			
Benzo(a)anthracene	0.115	0.00067	"	0.167	<0.000493	68.8	30-130			
Benzo(a)pyrene	0.13	0.00067	"	0.167	<0.000468	77.8	30-130			
Benzo(b)fluoranthene	0.103	0.00067	"	0.167	<0.000585	61.6	30-130			
Benzo(k)fluoranthene	0.115	0.00067	"	0.167	<0.000437	68.8	30-130			
Chrysene	0.127	0.00067	"	0.167	<0.000624	76	30-130			
Surrogate: 4-Terphenyl-d14	74.1		"	0.333	292	74.1	33-122			
Surrogate: 2-Fluorobiphenyl	61.5		"	0.333	198	61.5	33-115			
Surrogate: Nitrobenzene-d5	57.9		"	0.333	187	57.9	29-110			

LCS (LCS-L696682)					Prepared: 08/03/2023 Analyzed: 08/03/2023					
Dibenz(a,h)anthracene	0.17	0.00067	mg/Kg	0.167		102	30-130			
Benzo(b)fluoranthene	0.14	0.00067	"	0.167		83.8	30-130			
1-Methylnaphthalene	0.0967	0.00201	"	0.167		57.9	30-130			
2-Methylnaphthalene	0.0948	0.00201	"	0.167		56.7	30-130			
Acenaphthene	0.102	0.00067	"	0.167		61	30-130			
Anthracene	0.136	0.00067	"	0.167		81.4	30-130			
Fluorene	0.112	0.00067	"	0.167		67	30-130			
Benzo(a)pyrene	0.142	0.00067	"	0.167		85	30-130			
Benzo(k)fluoranthene	0.13	0.00067	"	0.167		77.8	30-130			
Pyrene	0.142	0.00067	"	0.167		85	30-130			
Fluoranthene	0.137	0.00067	"	0.167		82	30-130			
Indeno(1,2,3-cd)pyrene	0.125	0.00067	"	0.167		74.8	30-130			
Chrysene	0.134	0.00067	"	0.167		80.2	30-130			
Benzo(a)anthracene	0.125	0.00067	"	0.167		74.8	30-130			
Surrogate: 2-Fluorobiphenyl	61.2		"	0.333		61.2	33-115			
Surrogate: 4-Terphenyl-d14	93.6		"	0.333		93.6	33-122			

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-04

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
Batch L696682 - 3550B										
LCS (LCS-L696682)										
					Prepared: 08/03/2023 Analyzed: 08/03/2023					
Surrogate: Nitrobenzene-d5	56.1		mg/Kg	0.333		56.1	29-110			
LRB (LRB-L696682)										
					Prepared: 08/03/2023 Analyzed: 08/03/2023					
Dibenz(a,h)anthracene	ND	0.00067	mg/Kg				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	56.4		"	0.333		56.4	29-110			
Surrogate: 4-Terphenyl-d14	77.7		"	0.333		77.7	33-122			
Surrogate: 2-Fluorobiphenyl	60		"	0.333		60	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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Guttersen State CC 20-04

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L696548 -										
DUP (L 88520-DUP)		Source: Y307662-02			Prepared: Analyzed: 08/03/2023					
Chromium, Hexavalent	ND	0.503	mg/Kg		<0.503		-	0	20	
MS (L 88520-MS)		Source: Y307662-02			Prepared: Analyzed: 08/03/2023					
Chromium, Hexavalent	31.4	2.5	mg/Kg	39.6	<1.22	79	75-125			
LCS (LCS)		Prepared: Analyzed: 08/03/2023								
Chromium, Hexavalent	7.07	0.5	mg/Kg	8		88	75-125			
LRB (LRB)		Prepared: Analyzed: 08/03/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Gutterson State CC 20-04

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.

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