

# 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: NCLP PC #AA04-04		Date: 11/08/23					Remediation Project #: 31282	
Associated Wells: 05-123-29480		Age of Site: years					Number of Photos Attached: 6	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)							40.521224 / -104.448838	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)								
Good condition								
USCS Soil Type: Silty CLAY					Estimated Depth to Groundwater: ~15-25'			
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								
<b>Wellhead(s)</b>								
Well API	05-123-29480							
Age	years							
Condition of surface around wellhead	Good - No odor/no staining							
PID Readings	WH-N: 3.6	WH-E: 1.7	WH-S: 2.0	WH-W: 2.1				
Condition of subsurface (staining present)	Good - No odor/no staining							
PID Readings	2.0	1.4	1.2	5.4	10.7			
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								
<b>Summary</b>								
Was impacted soil identified?								
<input checked="" type="radio"/> No      Yes - less than 10 cubic yards      Yes - more than 10 cubic yards								
Total number of samples field screened: 9					Total number of samples collected: 9			
Highest PID Reading: 10.7					Total number of samples submitted to lab for analysis: 1			
If more than 10 cubic yards of impacted soil were observed:								
Vertical extent:					Estimated spill volume:			
Lateral extent:					Volume of soil removed:			
Is additional investigation required?								
Was groundwater encountered during the investigation?								
<input checked="" type="radio"/> No      Yes - not impacted or in contact with impacted soils      Yes - groundwater impacted and/or in contact with impacted soils								
Measured depth to groundwater:					Was remedial groundwater removal conducted?      Yes      No			
Date Groundwater was encountered:					Commencement date of removal:			
Sheen on groundwater?      Yes      No					Volume of groundwater removed prior to sampling:			
Free product observed?      Yes      No					Volume of groundwater removed post sampling:			
Total number of samples collected:					Total Volume of groundwater removed:			
Total number of samples submitted to lab for analysis:								



## **FIGURES**

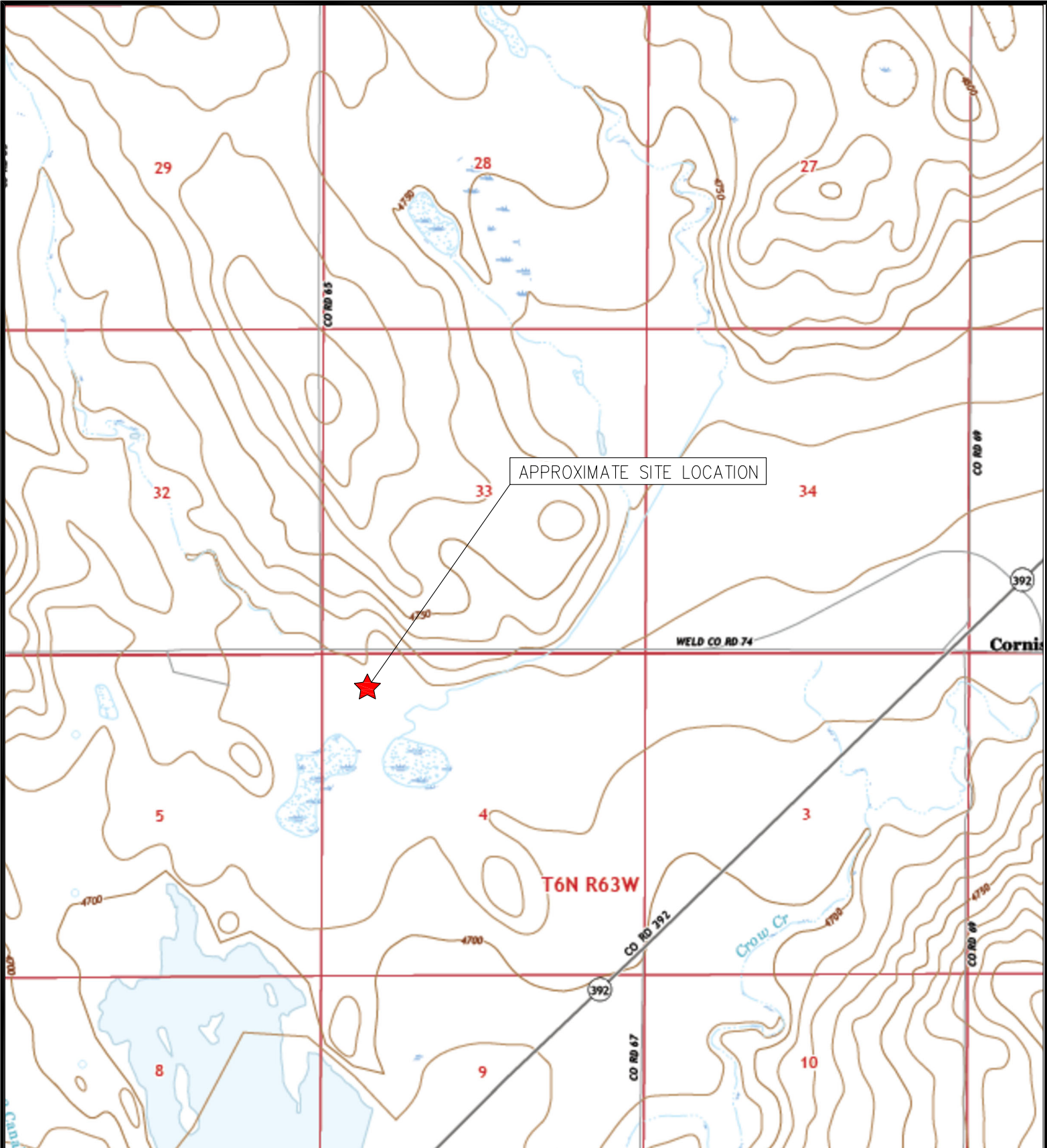
**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Sample Location Map**

**Figure 4: Soil Analytical Map**

**Figure 5: Metals in Soil Map**



TOPOGRAPHIC SITE LOCATION MAP

NCLP PC #AA04-04  
 CLOSURE ASSESSMENT  
 40.521224 / -104.448838  
 NW¼ NW¼ SEC.4 T6N R63W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-29480  
 REMEDIATION # 31282



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, LLC

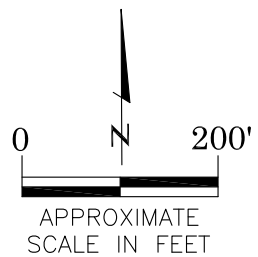
8000 W 44th Ave, Wheat Ridge, CO 80033  
 Ph: 303-433-0479 • F: 303-325-5449





LEGEND

FORMER NCLP PC #AA04-04 WELLHEAD (PLUGGED AND ABANDONED)



AERIAL SITE LOCATION MAP

NCLP PC #AA04-04  
CLOSURE ASSESSMENT  
40.521224 / -104.448838  
NW¼ NW¼ SEC.4 T6N R63W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-29480  
REMEDIAION # 31282

FIGURE NO.

2

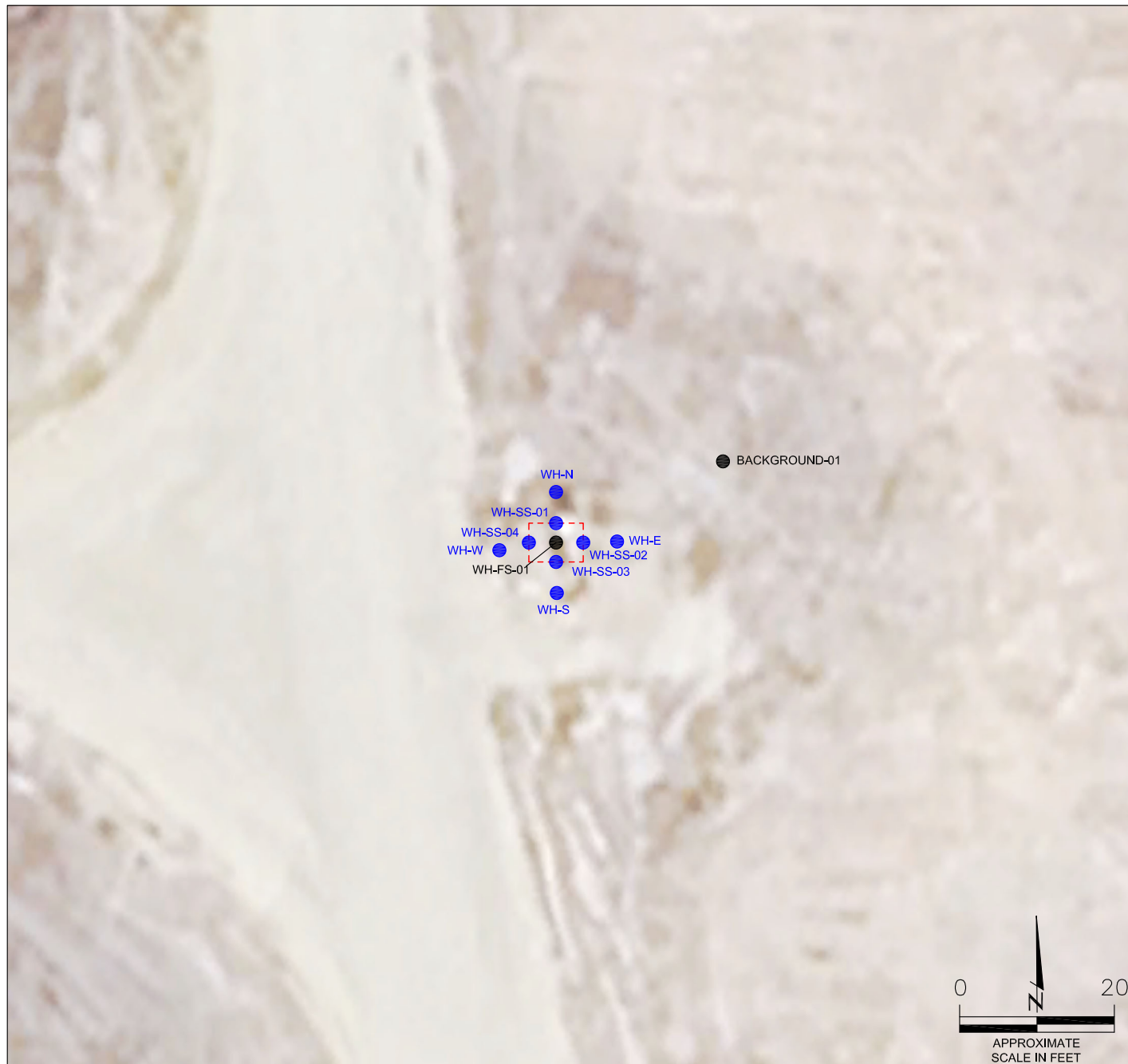
DRAWN BY:

RS



**EAGLE**  
ENVIRONMENTAL  
CONSULTING, LLC

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



# 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

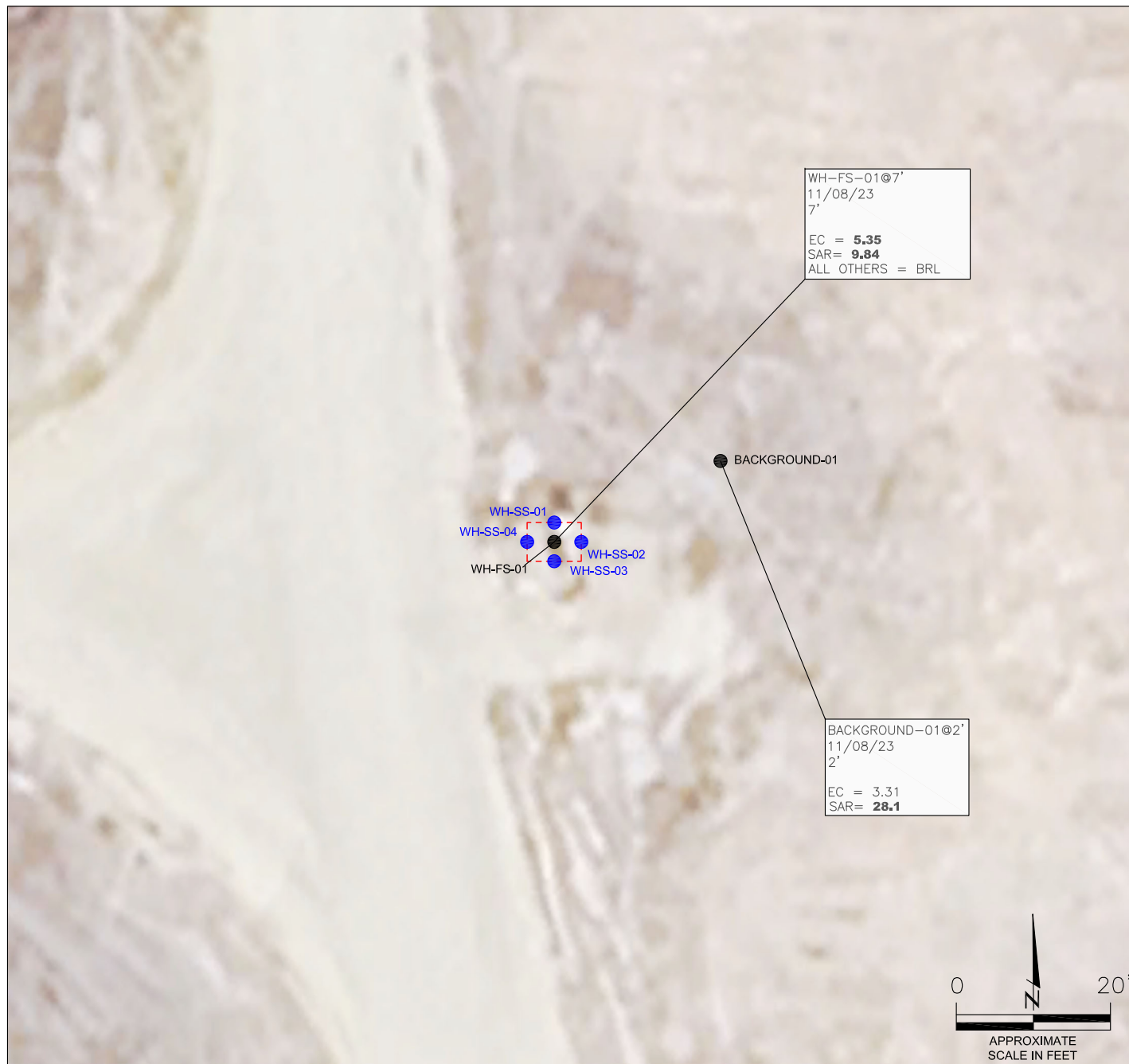
SAMPLE LOCATION MAP  
 NCLP PC #AA04-04  
 CLOSURE ASSESSMENT  
 40.521224 / -104.448838  
 NW¼ NW¼ SEC.4 T6N R63W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-29480  
 REMEDIATION # 31282

FIGURE NO.  
3

DRAWN BY:  
RS







#### LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- 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 = BELOW REGULATORY LIMITS

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE  
RANGE ORGANICS

TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL  
RANGE ORGANICS

TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL  
RANGE ORGANICS

#### NOTES:

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

#### SOIL ANALYTICAL MAP

NCLP PC #AA04-04

CLOSURE ASSESSMENT

40.521224 / -104.448838

NW¼ NW¼ SEC.4 T6N R63W 6PM

WELD COUNTY, COLORADO

API # 05-123-29480

REMEDATION # 31282

FIGURE NO.

4

DRAWN BY:

RS



**EAGLE**  
ENVIRONMENTAL  
CONSULTING, LLC

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



# LEGEND

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

## PARAMETERS

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

mg/kg = MILLIGRAMS PER KILOGRAM

NA = NOT ANALYZED

## NOTES:

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

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

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

**\*\*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  
NCLP PC #AA04-04  
CLOSURE ASSESSMENT  
40.521224 / -104.448838  
NW¼ NW¼ SEC.4 T6N R63W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-29480  
REMEDATION # 31282

FIGURE NO.  
5

DRAWN BY:  
RS



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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**  
**NCLP PC #AA04-04**  
**CLOSURE ASSESSMENT**  
**40.521224 / -104.448838**  
**NW¼ NW¼ SEC.4 T6N R63W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-29480**  
**REMEDATION # 31282**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-FS-01 @ 7' (40.521225 / -104.448837)	11/08/23	7	10.7	Y
WH-SS-01 @ 6' (40.521231 / -104.448837)	11/08/23	6	2.0	N
WH-SS-02 @ 6' (40.521225 / -104.448825)	11/08/23	6	1.4	N
WH-SS-03 @ 6' (40.521219 / -104.448837)	11/08/23	6	1.2	N
WH-SS-04 @ 6' (40.521225 / -104.448850)	11/08/23	6	5.4	N
WH-N @ 0.5' (40.521243 / -104.448837)	11/08/23	0.5	3.6	N
WH-E @ 0.5' (40.521226 / -104.448812)	11/08/23	0.5	1.7	N
WH-S @ 0.5' (40.521207 / -104.448837)	11/08/23	0.5	2.0	N
WH-W @ 0.5' (40.521223 / -104.448864)	11/08/23	0.5	2.1	N
Background-01 @ 2' (40.521254 / -104.448763)	11/08/23	2	4.4	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
NCLP PC #AA04-04  
CLOSURE ASSESSMENT  
40.521224 / -104.448838  
NW¼ NW¼ SEC.4 T6N R63W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-29480  
REMEDATION # 31282

Sample Location (Latitude / Longitude)				WH-FS-01 @ 7'	Background-01 @ 2'
				(40.521225 / -104.448837)	(40.521254 / -104.448763)
Sample Date				11/8/2023	11/8/2023
Sample Depth				7'	2'
PID Reading (ppm-v)				10.7	4.4
Regulatory Limits					
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	Local Clean-Up Level	
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
Naphthalene	mg/kg	2	0.0038	--	<0.00380
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	--	<0.002
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.002
Acenaphthene	mg/kg	360	0.55	--	<0.020
Anthracene	mg/kg	1800	5.8	--	<0.020
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.005
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.020
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.020
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.020
Chrysene	mg/kg	110	9	--	<0.020
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.020
Fluoranthene	mg/kg	240	8.9	--	<0.020
Fluorene	mg/kg	240	0.54	--	<0.020
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.020
Pyrene	mg/kg	180	1.3	--	<0.020
SOIL SUITABILITY (Inorganics)					
Boron	mg/L	2	--	--	1.08
pH	standard unit	6-8.3	--	--	8.02
Sodium Adsorption Ratio (SAR)	--	<6	--	--	<b>9.84</b>
Specific Conductance (EC)	mmhos/cm	<4	--	--	<b>5.35</b>
METALS					
Arsenic	mg/kg	0.68	0.29	4.55	3.70
Barium	mg/kg	15000	82	--	79.3
Cadmium	mg/kg	71	0.38	--	0.148
Copper	mg/kg	3100	46	--	<8.43
Lead	mg/kg	400	14	--	<8.43
Nickel	mg/kg	1500	26	--	<8.43
Selenium	mg/kg	390	0.26	--	0.105
Silver	mg/kg	390	0.8	--	<0.0843
Zinc	mg/kg	23000	370	--	<84.3
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	<0.244**
ECMC = Energy & Carbon Management Commission		NA - Not Analyzed		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.					
Elevated metals are naturally occurring in Colorado. Local Clean-up Levels are 1.25*Background concentrations where applicable.					
Values presented in <b>BOLD</b> exceed ECMC Table 915-1 Regulatory Limits and applicable Local Clean-up Levels.					
**Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg.					



## **ATTACHMENT A**

### **Photo Log**

NCLP PC #AA04-04  
API # 05-123-29480  
Remediation # 31282

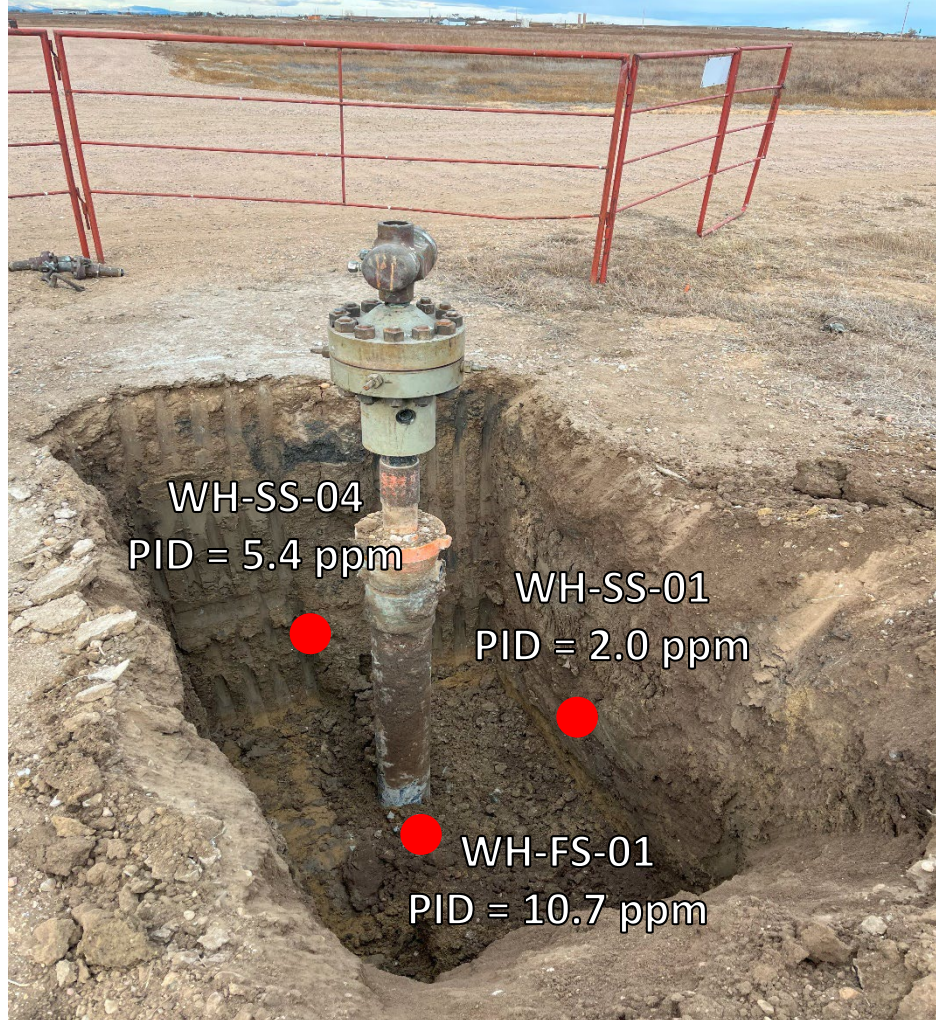
Closure Assessment

November 2023



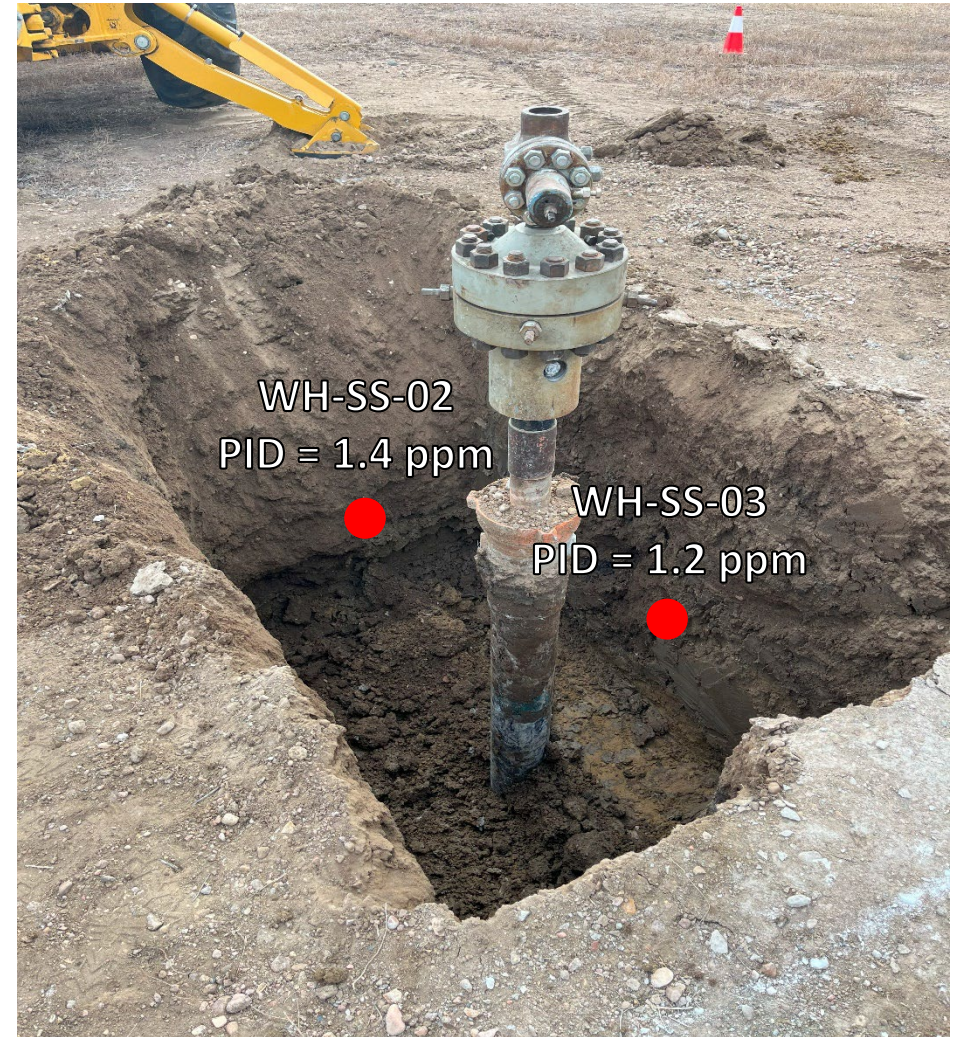


## Wellhead Excavation – 11/08/23



Looking northwest

No petroleum hydrocarbon staining or odor observed



Looking southeast

No petroleum hydrocarbon staining or odor observed



## Wellhead Surface – 11/08/23



Looking north

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



Looking east

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



## Wellhead Surface – 11/08/23



Looking south

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



Looking west

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





## **ATTACHMENT B**

### **Laboratory Analytical Reports**





November 27, 2023

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - NCLP PC #AA04-04

Project Number - [none]

Attached are your analytical results for Noble - NCLP PC #AA04-04 received by Origins Laboratory, Inc. November 08, 2023. This project is associated with Origins project number Y311248-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@7'	Y311248-01	Soil	November 8, 2023 8:40	11/08/2023 16:14

Origins Laboratory, Inc.



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

Jordan A. Bynon, Project Manager



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

Origins Laboratory

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

### Sample Receipt Checklist

Origins Work Order: UB11248

Client: Eagle

Client Project ID: NCLP PC #AA04-04

Checklist Completed by: CHS

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

Date/time completed: 11/8/23

Airbill #: N/A

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

Cooler Number/Temperature: 11516 °C 1 °C 1 °C (Describe) \_\_\_\_\_ °C

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>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 11/10/23

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

WH-FS-01@7'

11/8/2023 8:40:00AM

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

Origins Laboratory, Inc.  
Y311248-01 (Soil)

## Boron (DTPA Sorbitol)

Boron	1.08	0.100	mg/L	1	B3K1022	11/10/2023	11/14/2023	
-------	------	-------	------	---	---------	------------	------------	--

## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K1001	11/10/2023	11/13/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	73.8 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

## GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K0904	11/10/2023	11/11/2023	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.



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Jordan A. Bynon, Project Manager

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

WH-FS-01@7'

11/8/2023 8:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y311248-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	149 %	70-130	B3K09 04	11/10/2023	11/11/2023	3-GC
Surrogate: Toluene-d8	96.1 %	70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	98.1 %	70-130	"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	20.1	0.499	meq/L	10	[CALC]	11/11/2023	11/13/2023
Magnesium	8.13	0.823	"	"	"	"	"
Sodium	37.0	0.435	"	"	"	"	"

**PAH by EPA 8270E**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K1031	11/10/2023	11/16/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	U

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

WH-FS-01@7'

11/8/2023 8:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311248-01 (Soil)

## PAH by EPA 8270E

Fluoranthene	ND	0.020	mg/kg	1	B3K1031	11/10/2023	11/16/2023	U
Fluorene	ND	0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	"	"	U
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %	60-130	"	"	"
Surrogate: Anthracene-d10	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.2 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	97.6 %	60-130	"	"	"

## pH in Soil by 9045D

pH	8.02	pH Units	1	B3K1106	11/11/2023	11/12/2023
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## SAR by 20B Saturated Paste

SAR	9.84	0.0100	SAR	1	B3K1102	11/11/2023	11/13/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.35	0.00500	mmhos/cm	1	B3K1106	11/11/2023	11/12/2023
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## Table 915 metals by EPA 6020B

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WH-FS-01@7'

11/8/2023 8:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y311248-01 (Soil)

### Table 915 metals by EPA 6020B

Arsenic	3.70	0.0843	mg/kg	10	B3K1421	11/16/2023	11/17/2023
Barium	79.3	8.43	"	"	"	"	"
Cadmium	0.148	0.0843	"	"	"	"	"
Copper	ND	8.43	"	"	"	"	"
Lead	ND	8.43	"	"	"	"	"
Nickel	ND	8.43	"	"	"	"	"
Selenium	0.105	0.0843	"	"	"	"	"
Silver	ND	0.0843	"	"	"	"	"
Zinc	ND	84.3	"	"	"	"	"

### Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L716842	11/08/2023	11/14/2023
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Project: Noble - NCLP PC #AA04-04

**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
<b>Batch B3K0904 - EPA 5030 (soil)</b>										
<b>Blank (B3K0904-BLK1)</b>					Prepared: 11/10/2023 Analyzed: 11/10/2023					
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	0.14		"	0.125	112		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	103		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.3		70-130			

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Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

## 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 B3K0904 - EPA 5030 (soil)										
LCS (B3K0904-BS1)					Prepared: 11/10/2023 Analyzed: 11/10/2023					
1,2,4-Trimethylbenzene	0.0947	0.00200	mg/kg	0.100		94.7	70-130			
1,3,5-Trimethylbenzene	0.0950	0.00200	"	0.100		95.0	70-130			
Benzene	0.0827	0.00200	"	0.100		82.7	70-130			
Ethylbenzene	0.0891	0.00200	"	0.100		89.1	70-130			
Naphthalene	0.0887	0.00380	"	0.100		88.7	70-130			
Toluene	0.0883	0.00200	"	0.100		88.3	70-130			
o-Xylene	0.0979	0.00200	"	0.100		97.9	70-130			
m,p-Xylene	0.189	0.00400	"	0.200		94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.0	70-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

**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
<b>Batch B3K0904 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3K0904-MS1)</b>		<b>Source: Y311228-01</b>			Prepared: 11/10/2023 Analyzed: 11/10/2023					
1,2,4-Trimethylbenzene	0.0811	0.00200	mg/kg	0.100	ND	81.1	70-130			
1,3,5-Trimethylbenzene	0.0800	0.00200	"	0.100	ND	80.0	70-130			
Benzene	0.0725	0.00200	"	0.100	ND	72.5	70-130			
Ethylbenzene	0.0750	0.00200	"	0.100	ND	75.0	70-130			
Naphthalene	0.123	0.00380	"	0.100	0.0265	96.1	70-130			
Toluene	0.0789	0.00200	"	0.100	ND	78.9	70-130			
o-Xylene	0.0856	0.00200	"	0.100	ND	85.6	70-130			
m,p-Xylene	0.162	0.00400	"	0.200	ND	81.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.17		"	0.125		136	70-130			S-GC
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.3	70-130			

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Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

**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
<b>Batch B3K0904 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B3K0904-MSD1)</b>	<b>Source: Y311228-01</b>				Prepared: 11/10/2023 Analyzed: 11/10/2023					
1,2,4-Trimethylbenzene	0.0820	0.00200	mg/kg	0.100	ND	82.0	70-130	1.10	20	
1,3,5-Trimethylbenzene	0.0829	0.00200	"	0.100	ND	82.9	70-130	3.63	20	
Benzene	0.0735	0.00200	"	0.100	ND	73.5	70-130	1.40	20	
Ethylbenzene	0.0780	0.00200	"	0.100	ND	78.0	70-130	3.87	20	
Naphthalene	0.127	0.00380	"	0.100	0.0265	100	70-130	3.40	20	
Toluene	0.0791	0.00200	"	0.100	ND	79.1	70-130	0.329	20	
o-Xylene	0.0883	0.00200	"	0.100	ND	88.3	70-130	3.15	20	
m,p-Xylene	0.167	0.00400	"	0.200	ND	83.4	70-130	2.92	20	
Surrogate: 1,2-Dichloroethane-d4	0.17		"	0.125		132	70-130			S-GC
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	70-130			

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Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

**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 B3K1001 - EPA 3550B										
Blank (B3K1001-BLK1)					Prepared: 11/10/2023 Analyzed: 11/13/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		88.0	50-150			

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Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

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 B3K1001 - EPA 3550B										
LCS (B3K1001-BS1)					Prepared: 11/10/2023 Analyzed: 11/13/2023					
Diesel (C10-C28)	992	50.0	mg/kg	1000		99.2	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000		104	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.7	50-150			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

## 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
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### Batch B3K1001 - EPA 3550B

Matrix Spike (B3K1001-MS1)		Source: Y311228-01			Prepared: 11/10/2023 Analyzed: 11/13/2023					
Diesel (C10-C28)	1090	50.0	mg/kg	1000	ND	109	70-130			
Residual Range Organics (C28-C40)	1180	200	"	1000	ND	118	70-130			
Surrogate: o-Terphenyl	59		"	49.8		118	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

## 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 B3K1001 - EPA 3550B										
Matrix Spike Dup (B3K1001-MSD1)		Source: Y311228-01			Prepared: 11/10/2023 Analyzed: 11/13/2023					
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130	5.99	35	
Residual Range Organics (C28-C40)	1110	200	"	1000	ND	111	70-130	6.11	35	
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

## 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
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## Metals by EPA 6000/7000 Series Methods - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B3K1421 - EPA 3050B

#### Blank (B3K1421-BLK1)

Prepared: 11/16/2023 Analyzed: 11/17/2023

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 (B3K1421-BS1)

Prepared: 11/16/2023 Analyzed: 11/17/2023

Arsenic	0.0553	0.000100	mg/kg	0.0500	111	80-120
Barium	5.41	0.0100	"	5.00	108	80-120
Cadmium	0.0550	0.000100	"	0.0500	110	80-120
Copper	0.530	0.0100	"	0.500	106	80-120
Lead	0.0534	0.0100	"	0.0500	107	80-120
Nickel	0.0528	0.0100	"	0.0500	106	80-120
Selenium	0.0533	0.000100	"	0.0500	107	80-120
Silver	0.0539	0.000100	"	0.0500	108	80-120
Zinc	0.518	0.100	"	0.500	104	80-120

#### Matrix Spike (B3K1421-MS1)

Source: Y311232-12

Prepared: 11/16/2023 Analyzed: 11/17/2023

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

## 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
<b>Batch B3K1421 - EPA 3050B</b>										
<b>Matrix Spike (B3K1421-MS1)</b>		<b>Source: Y311232-12</b>			Prepared: 11/16/2023 Analyzed: 11/17/2023					
Arsenic	8.96	0.0834	mg/kg	4.17	5.03	94.3	75-125			
Barium	609	8.34	"	417	128	115	75-125			
Cadmium	4.93	0.0834	"	4.17	0.188	114	75-125			
Copper	53.8	8.34	"	41.7	13.2	97.4	75-125			
Lead	15.0	8.34	"	4.17	11.9	74.2	75-125			QM-07
Nickel	16.0	8.34	"	4.17	12.9	73.6	75-125			QM-07
Selenium	4.33	0.0834	"	4.17	0.126	101	75-125			
Silver	4.65	0.0834	"	4.17	0.0538	110	75-125			
Zinc	86.0	83.4	"	41.7	49.5	87.3	75-125			
<b>Matrix Spike Dup (B3K1421-MSD1)</b>		<b>Source: Y311232-12</b>			Prepared: 11/16/2023 Analyzed: 11/17/2023					
Arsenic	10.1	0.0913	mg/kg	4.57	5.03	111	75-125	11.8	20	
Barium	656	9.13	"	457	128	116	75-125	7.47	20	
Cadmium	5.47	0.0913	"	4.57	0.188	116	75-125	10.4	20	
Copper	60.8	9.13	"	45.7	13.2	104	75-125	12.3	20	
Lead	17.0	9.13	"	4.57	11.9	113	75-125	12.9	20	
Nickel	17.7	9.13	"	4.57	12.9	104	75-125	9.96	20	
Selenium	4.70	0.0913	"	4.57	0.126	100	75-125	8.35	20	
Silver	5.13	0.0913	"	4.57	0.0538	111	75-125	9.80	20	
Zinc	95.9	91.3	"	45.7	49.5	102	75-125	11.0	20	

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Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3K1031 - EPA 3580**

**Blank (B3K1031-BLK1)**

Prepared: 11/10/2023 Analyzed: 11/16/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		99.8	60-130			
Surrogate: Anthracene-d10	190		"	200		96.2	60-130			
Surrogate: Pyrene-d10	190		"	200		95.0	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.4	60-130			

**LCS (B3K1031-BS1)**

Prepared: 11/10/2023 Analyzed: 11/16/2023

1-Methylnaphthalene	0.211	0.002	mg/kg	0.200		105	70-130
2-Methylnaphthalene	0.211	0.002	"	0.200		105	70-130
Acenaphthene	0.208	0.020	"	0.200		104	70-130
Anthracene	0.191	0.020	"	0.200		95.3	70-130

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3K1031 - EPA 3580**

**LCS (B3K1031-BS1)**

Prepared: 11/10/2023 Analyzed: 11/16/2023

Benzo (a) anthracene	0.177	0.005	mg/kg	0.200		88.6	70-130
Benzo (a) pyrene	0.206	0.020	"	0.200		103	70-130
Benzo (b) fluoranthene	0.188	0.020	"	0.200		94.2	70-130
Benzo (g,h,i) perylene	0.219	0.020	"	0.200		110	70-130
Benzo (k) fluoranthene	0.240	0.020	"	0.200		120	70-130
Chrysene	0.192	0.020	"	0.200		95.8	70-130
Dibenz (a,h) anthracene	0.208	0.020	"	0.200		104	70-130
Fluoranthene	0.236	0.020	"	0.200		118	70-130
Fluorene	0.210	0.020	"	0.200		105	70-130
Indeno (1,2,3-cd) pyrene	0.216	0.020	"	0.200		108	70-130
Naphthalene	0.213	0.002	"	0.200		106	70-130
Phenanthrene	0.204	0.020	"	0.200		102	70-130
Pyrene	0.192	0.020	"	0.200		96.2	70-130
Surrogate: Fluorene-d10	200		ug/kg	200		98.6	60-130
Surrogate: Anthracene-d10	210		"	200		104	60-130
Surrogate: Pyrene-d10	190		"	200		94.9	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130

**Matrix Spike (B3K1031-MS1)**

**Source: Y310740-02**

Prepared: 11/10/2023 Analyzed: 11/16/2023

1-Methylnaphthalene	0.341	0.002	mg/kg	0.200	0.146	97.4	70-130
2-Methylnaphthalene	0.312	0.002	"	0.200	0.118	97.0	70-130
Acenaphthene	0.218	0.020	"	0.200	0.012	103	70-130
Anthracene	0.191	0.020	"	0.200	0.013	89.4	70-130
Benzo (a) anthracene	0.221	0.005	"	0.200	0.005	108	70-130
Benzo (a) pyrene	0.183	0.020	"	0.200	0.005	89.3	70-130
Benzo (b) fluoranthene	0.196	0.020	"	0.200	0.005	95.5	70-130
Benzo (g,h,i) perylene	0.195	0.020	"	0.200	0.008	93.6	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

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3K1031 - EPA 3580**

Matrix Spike (B3K1031-MS1)		Source: Y310740-02			Prepared: 11/10/2023 Analyzed: 11/16/2023					
Benzo (k) fluoranthene	0.193	0.020	mg/kg	0.200	0.002	95.8	70-130			
Chrysene	0.218	0.020	"	0.200	0.011	103	70-130			
Dibenz (a,h) anthracene	0.183	0.020	"	0.200	0.001	91.1	70-130			
Fluoranthene	0.282	0.020	"	0.200	0.041	121	70-130			
Fluorene	0.215	0.020	"	0.200	0.008	104	70-130			
Indeno (1,2,3-cd) pyrene	0.183	0.020	"	0.200	0.003	89.9	70-130			
Naphthalene	0.214	0.002	"	0.200	0.006	104	70-130			
Phenanthrene	0.235	0.020	"	0.200	0.068	83.3	70-130			
Pyrene	0.186	0.020	"	0.200	0.055	65.3	70-130			QM-07
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	160		"	200		80.3	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.3	60-130			

Matrix Spike Dup (B3K1031-MSD1)		Source: Y310740-02			Prepared: 11/10/2023 Analyzed: 11/16/2023					
1-Methylnaphthalene	0.370	0.002	mg/kg	0.200	0.146	112	70-130	8.11	20	
2-Methylnaphthalene	0.338	0.002	"	0.200	0.118	110	70-130	8.05	20	
Acenaphthene	0.223	0.020	"	0.200	0.012	106	70-130	1.85	20	
Anthracene	0.196	0.020	"	0.200	0.013	91.9	70-130	2.57	20	
Benzo (a) anthracene	0.217	0.005	"	0.200	0.005	106	70-130	1.74	20	
Benzo (a) pyrene	0.186	0.020	"	0.200	0.005	90.9	70-130	1.78	20	
Benzo (b) fluoranthene	0.200	0.020	"	0.200	0.005	97.3	70-130	1.73	20	
Benzo (g,h,i) perylene	0.191	0.020	"	0.200	0.008	91.7	70-130	1.93	20	
Benzo (k) fluoranthene	0.205	0.020	"	0.200	0.002	102	70-130	6.00	20	
Chrysene	0.218	0.020	"	0.200	0.011	103	70-130	0.135	20	
Dibenz (a,h) anthracene	0.185	0.020	"	0.200	0.001	91.7	70-130	0.645	20	
Fluoranthene	0.288	0.020	"	0.200	0.041	123	70-130	1.84	20	

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

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

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

**Batch B3K1031 - EPA 3580**

Matrix Spike Dup (B3K1031-MSD1)		Source: Y310740-02			Prepared: 11/10/2023 Analyzed: 11/16/2023					
Fluorene	0.212	0.020	mg/kg	0.200	0.008	102	70-130	1.55	20	
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200	0.003	89.1	70-130	0.793	20	
Naphthalene	0.215	0.002	"	0.200	0.006	105	70-130	0.698	20	
Phenanthrene	0.257	0.020	"	0.200	0.068	94.6	70-130	9.20	20	
Pyrene	0.200	0.020	"	0.200	0.055	72.7	70-130	7.63	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	170		"	200		83.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.5	60-130			

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Eagle Environmental Consulting, LLC  
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Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

## Classical Chemistry Parameters - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K1022 - DTPA Sorbitol Preparation</b>										
<b>Blank (B3K1022-BLK1)</b>					Prepared: 11/10/2023 Analyzed: 11/14/2023					
Boron	ND	0.100	mg/L							
<b>Duplicate (B3K1022-DUP1)</b>					Source: Y311150-09 Prepared: 11/10/2023 Analyzed: 11/14/2023					
Boron	0.702	0.0981	mg/L		0.635			9.93	50	
<b>Batch B3K1102 - Saturated Paste Metals</b>										
<b>Blank (B3K1102-BLK1)</b>					Prepared: 11/11/2023 Analyzed: 11/13/2023					
Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							
<b>Duplicate (B3K1102-DUP1)</b>					Source: Y311243-01 Prepared: 11/11/2023 Analyzed: 11/13/2023					
Calcium PPM	8.80	10.0	mg/L		3.47			86.9	50	QR-DUP
SAR	ND	0.0100	SAR		0.517				200	
Magnesium PPM	6.74	10.0	mg/L		1.58			124	50	QR-DUP
Sodium PPM	6.13	10.0	"		4.63			27.9	50	

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8000 W 44th Ave  
Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

## Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3K1106 - Saturated Paste pH/EC</b>										
<b>Blank (B3K1106-BLK1)</b>					Prepared: 11/11/2023 Analyzed: 11/12/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3K1106-DUP1)</b>					<b>Source: Y311243-01</b> Prepared: 11/11/2023 Analyzed: 11/12/2023					
pH	7.23		pH Units		7.28			0.689	25	
Specific Conductance (EC)	0.0593	0.00500	mmhos/cm		0.0602			1.51	25	

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

## 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
<b>Batch L716842 -</b>										
<b>DUP (L 89933-DUP)</b>		<b>Source: 89933</b>			Prepared: Analyzed: 11/14/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-		0	20	
<b>MS (L 89933-MS)</b>		<b>Source: 89933</b>			Prepared: Analyzed: 11/14/2023					
Chromium, Hexavalent	33.1	2.5	mg/Kg	39.3	<1.22	84	75-125			
<b>LCS (LCS)</b>					Prepared: Analyzed: 11/14/2023					
Chromium, Hexavalent	7.13	0.5	mg/Kg	8		89	75-125			
<b>LRB (LRB)</b>					Prepared: Analyzed: 11/14/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

### Notes and Definitions

U Sample is Non-Detect.

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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



December 26, 2023

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - NCLP PC #AA04-04

Project Number - [none]

Attached are your analytical results for Noble - NCLP PC #AA04-04 received by Origins Laboratory, Inc. December 04, 2023. This project is associated with Origins project number Y312078-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@2'	Y312078-01	Soil	November 8, 2023 8:30	12/04/2023 16:30

Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

**ORIGINS**  
LABORATORY, INC

www.originslaboratory.com

4312078

page | of |

Client: Eagle Environmental Consulting  
Address: 8000 W 44th Ave  
Wheat Ridge CO 80033  
Telephone Number: 303-433-0177  
Email Address: anewberry@eagle-mva.com

Project Manager: Andrew Newberry  
Project Name: NCLP PC #AA04-04  
Project Number: —  
Samples Collected By: LS

Fax: 303.265.9645 | Phone: 303.433.1322 | Denver, CO 80211 | 1725 Elk Place

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis				Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #	Other	SAF - 208	CE - 4020A	APAC - 6020B			
Baldpate-012	11/8/13	0830	2	X					X					X		1	submerged water
																2	prop
																3	
																4	indus residual
																5	
																6	
																7	
																8	
																9	
																10	

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<i>[Signature]</i>	12/14/13	1630	LS	12/14/13	1630	Standard

Date Results Needed 6 Noble

Temp Received- 6

\* Bill to Jeff

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4312078

Client: Eagle

Client Project ID: NCLP PC AA04-04

Checklist Completed by: EHS

Shipped Via: HD

Date/time completed: 12/4/12

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

Airbill #: N/A

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

Cooler Number/Temperature: 116 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by: JB (Project Manager)

Date/Time Reviewed: 12-6-12

Origins Laboratory, Inc.

*JB*

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

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

**Background-01@2'**

**11/8/2023 8:30:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312078-01 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	1.39	0.499	meq/L	10	[CALC]	12/05/2023	12/06/2023
Magnesium	1.39	0.823	"	"	"	"	"
Sodium	33.1	0.435	"	"	"	"	"

**SAR by 20B Saturated Paste**

SAR	28.1	0.0100	SAR	1	B3L0510	"	"
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	3.31	0.00500	mmhos/cm	1	B3L0515	12/05/2023	12/06/2023
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**Total Metals by 6020B**

Arsenic	3.64	0.0855	0.25	mg/Kg	5	L721239	12/07/2023	12/21/2023
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8000 W 44th Ave  
Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

## Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch B3L0510 - Saturated Paste Metals

#### Blank (B3L0510-BLK1)

Prepared: 12/05/2023 Analyzed: 12/06/2023

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

#### Duplicate (B3L0510-DUP1)

Source: Y312014-02

Prepared: 12/05/2023 Analyzed: 12/06/2023

SAR	ND	0.0100	SAR	21.1			200
Calcium PPM	10.7	10.0	mg/L	9.87		7.98	50
Magnesium PPM	1.82	10.0	"	1.65		9.80	50
Sodium PPM	287	10.0	"	271		5.54	50

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Jordan A. Bynon, Project Manager

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

## Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3L0515 - Saturated Paste pH/EC</b>										
<b>Blank (B3L0515-BLK1)</b>					Prepared: 12/05/2023 Analyzed: 12/06/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3L0515-DUP1)</b>					Source: Y312014-02 Prepared: 12/05/2023 Analyzed: 12/06/2023					
Specific Conductance (EC)	0.923	0.00500	mmhos/cm		0.954			3.36	25	

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Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

## Total Metals by 6020B - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L721239 - 3050B										
<b>MSD (L 88386-MSD-L721239)</b>			<b>Source: 88386</b>			Prepared: 12/07/2023 Analyzed: 12/21/2023				
Arsenic	3.82	0.25	mg/Kg dry	2.47	1.35	100	75-125	5.3	80	
<b>MS (L 88386-MS-L721239)</b>			<b>Source: 88386</b>			Prepared: 12/07/2023 Analyzed: 12/21/2023				
Arsenic	3.62	0.25	mg/Kg dry	2.33	1.35	98	75-125			
<b>LCS (LCS-L721239)</b>						Prepared: 12/07/2023 Analyzed: 12/21/2023				
Arsenic	2.49	0.25	mg/Kg	2.5		100	80-120			
<b>LRB (LRB-L721239)</b>						Prepared: 12/07/2023 Analyzed: 12/21/2023				
Arsenic	ND	0.25	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.

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Andrew Newberry  
Project Number: [none]  
Project: Noble - NCLP PC #AA04-04

### Notes and Definitions

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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Jordan A. Bynon, Project Manager