

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: PTF #C 32-8		Date: 06/16/2022					Remediation Project #: 23204	
Associated Wells: 05-123-14879		Age of Site: years					Number of Photos Attached: 1	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)							Estimated Facility Size (acres): <u> </u>	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)								
Good condition								
USCS Soil Type: SC					Estimated Depth to Groundwater: ~10-15'			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
None observed								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
None observed								
Wellhead(s)								
Well API	05-123-14879							
Age	years							
Condition of surface around wellhead	Good - Per Crew							
PID Readings	N/A - Excavated upon arrival							
Condition of subsurface (staining present)	Good - No odor/no staining							
PID Readings	0.6	0.2	0.7	0.6	0.8			
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01			
Photo Number(s)	See photo log							
Other observations regarding wellheads:								
Well casing cut/capped following assessment								
Summary								
Was impacted soil identified?								
<input checked="" type="radio"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards								
Total number of samples field screened: 5				Total number of samples collected: 5				
Highest PID Reading: 0.8				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

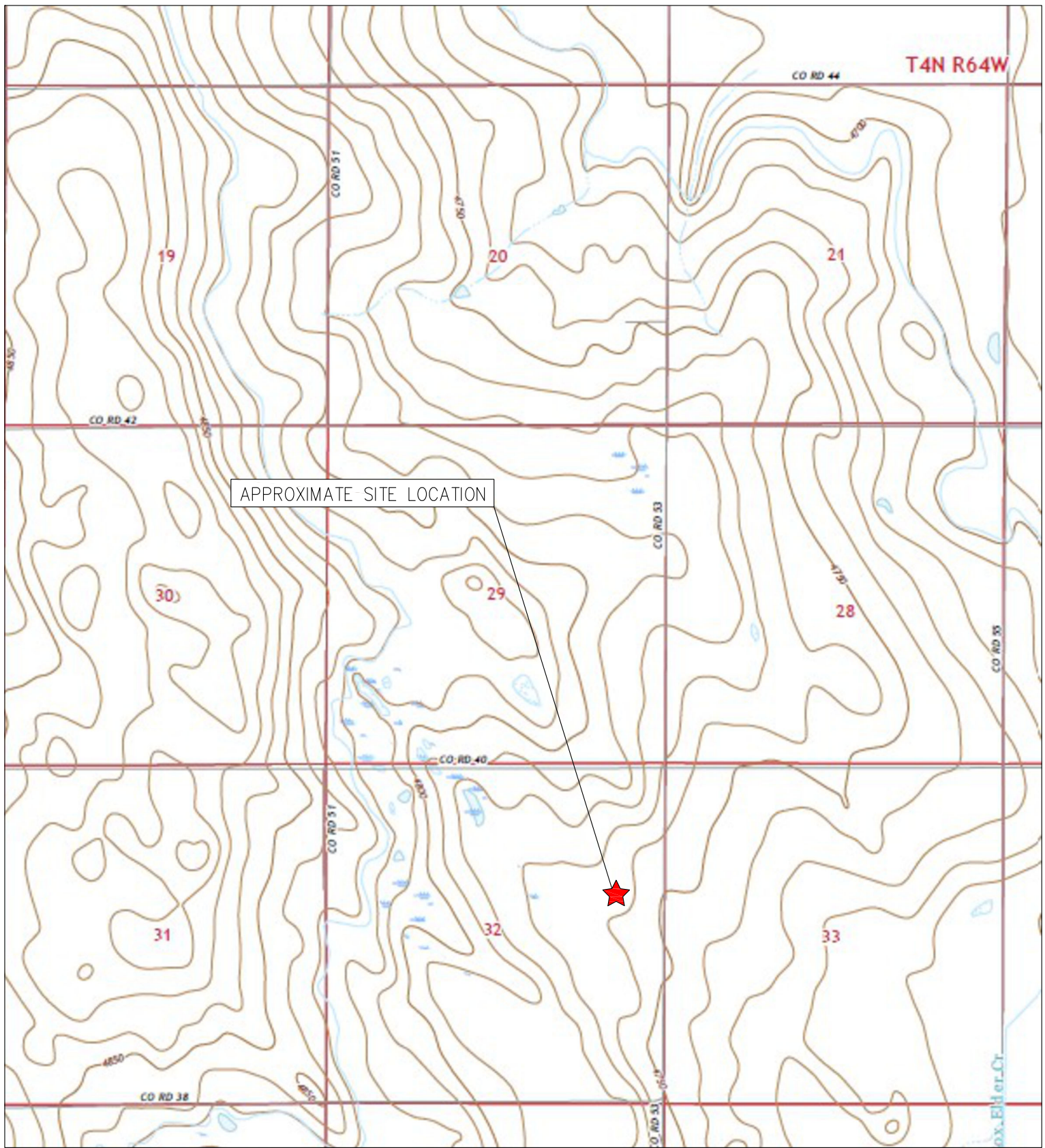
Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Polycyclic Aromatic Hydrocarbons Map

Figure 5: Metals in Soil Map



TOPOGRAPHIC SITE LOCATION MAP
 PTF #C 32-8
 CLOSURE ASSESSMENT
 40.270210 / -104.567750
 SE¼ NE¼ SEC.32 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-14879
 REMEDIATION # 23204

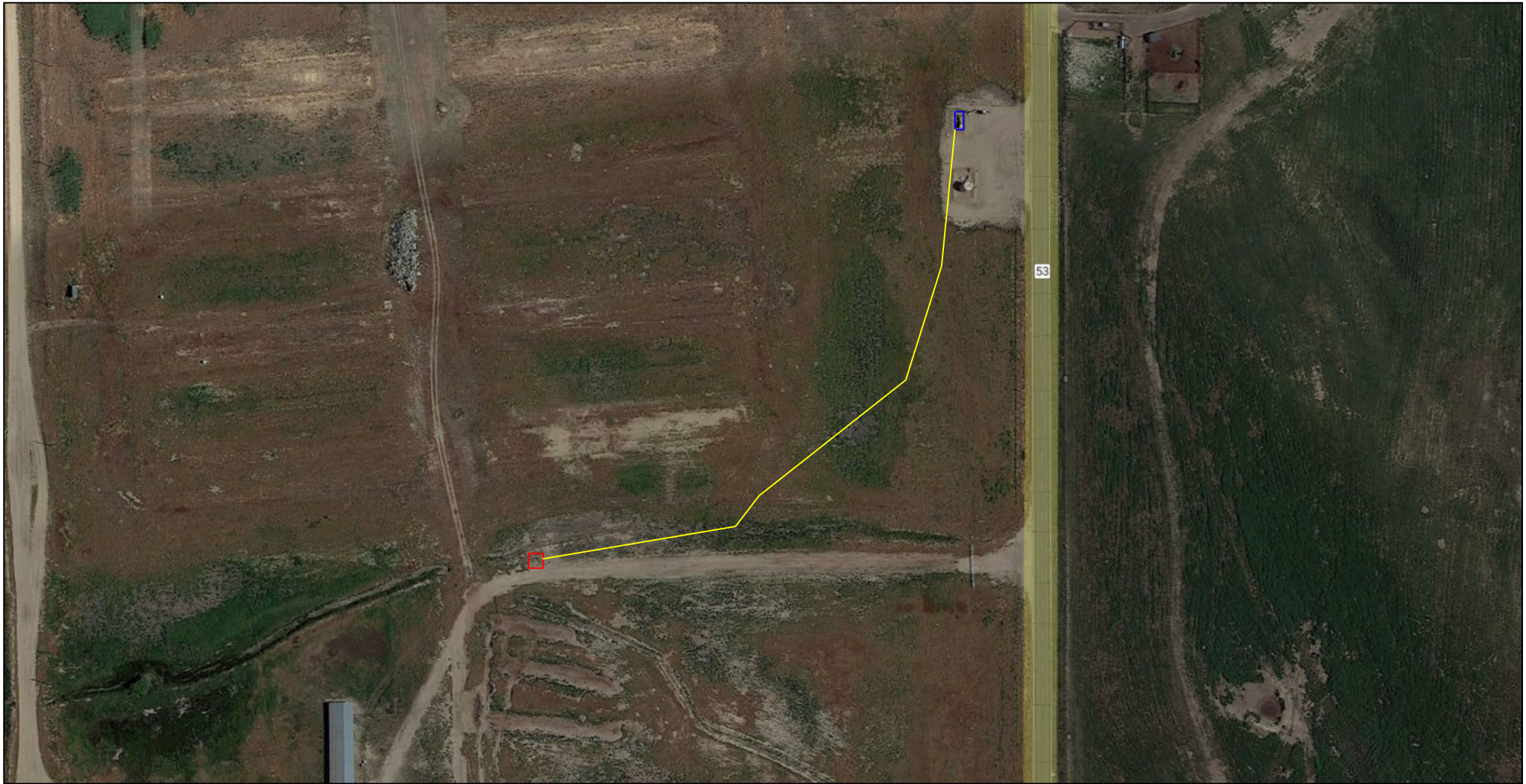


EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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

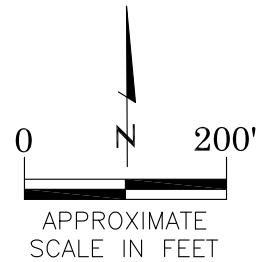
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,
 VALLEY VIEW SCHOOL, CO QUADRANGLE 2022

FIGURE 1



LEGEND

- FORMER PTF #C 32-8 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP

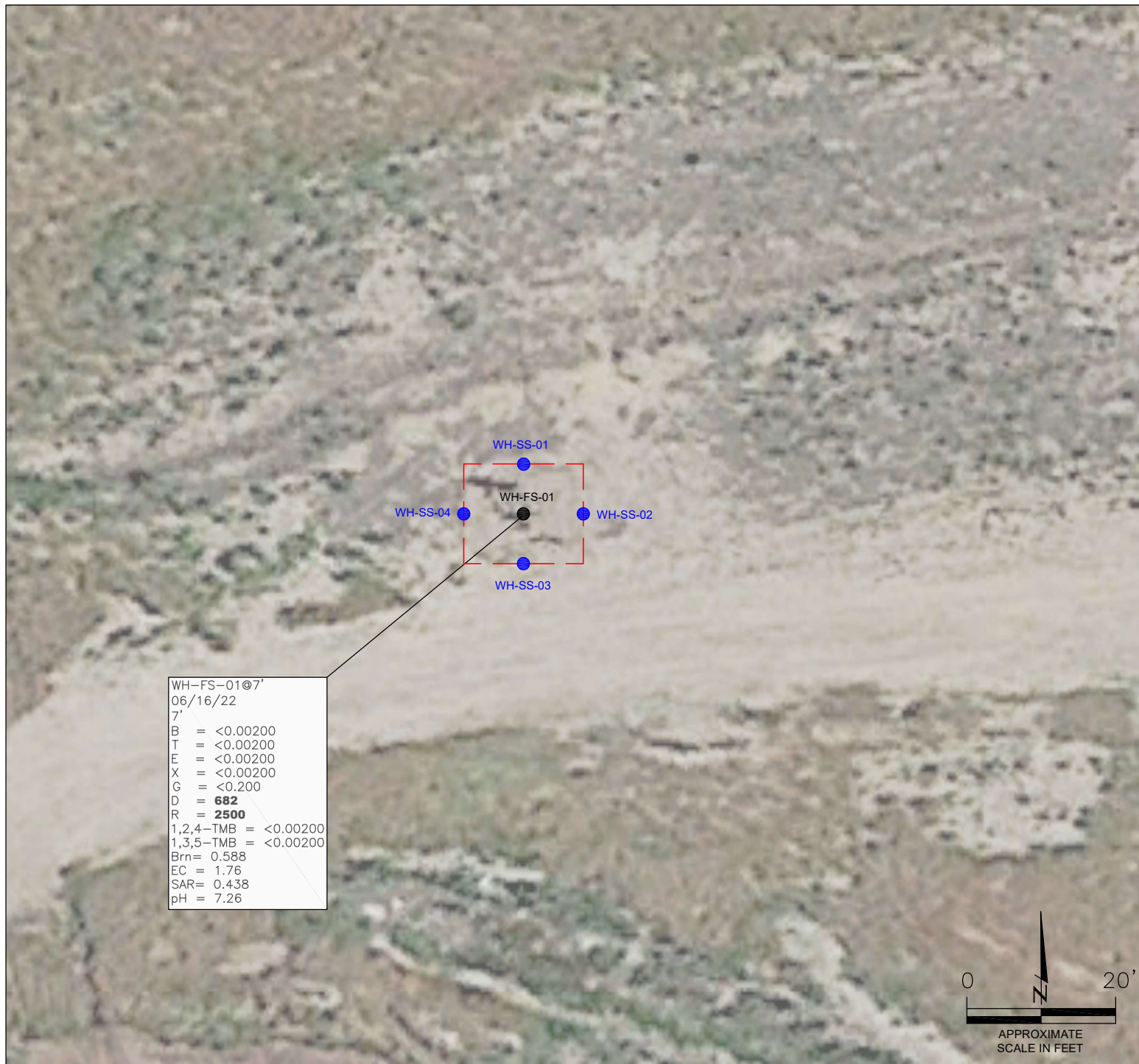
PTF #C 32-8
 CLOSURE ASSESSMENT
 40.270210 / -104.567750
 SE¼ NE¼ SEC.32 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-14879
 REMEDIATION # 23204

FIGURE NO.
2

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WH-FS-01@7'
06/16/22
7'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
G = <0.200
D = **682**
R = **2500**
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
Brn= 0.588
EC = 1.76
SAR= 0.438
pH = 7.26

LEGEND

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

PARAMETERS

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

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

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

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

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP

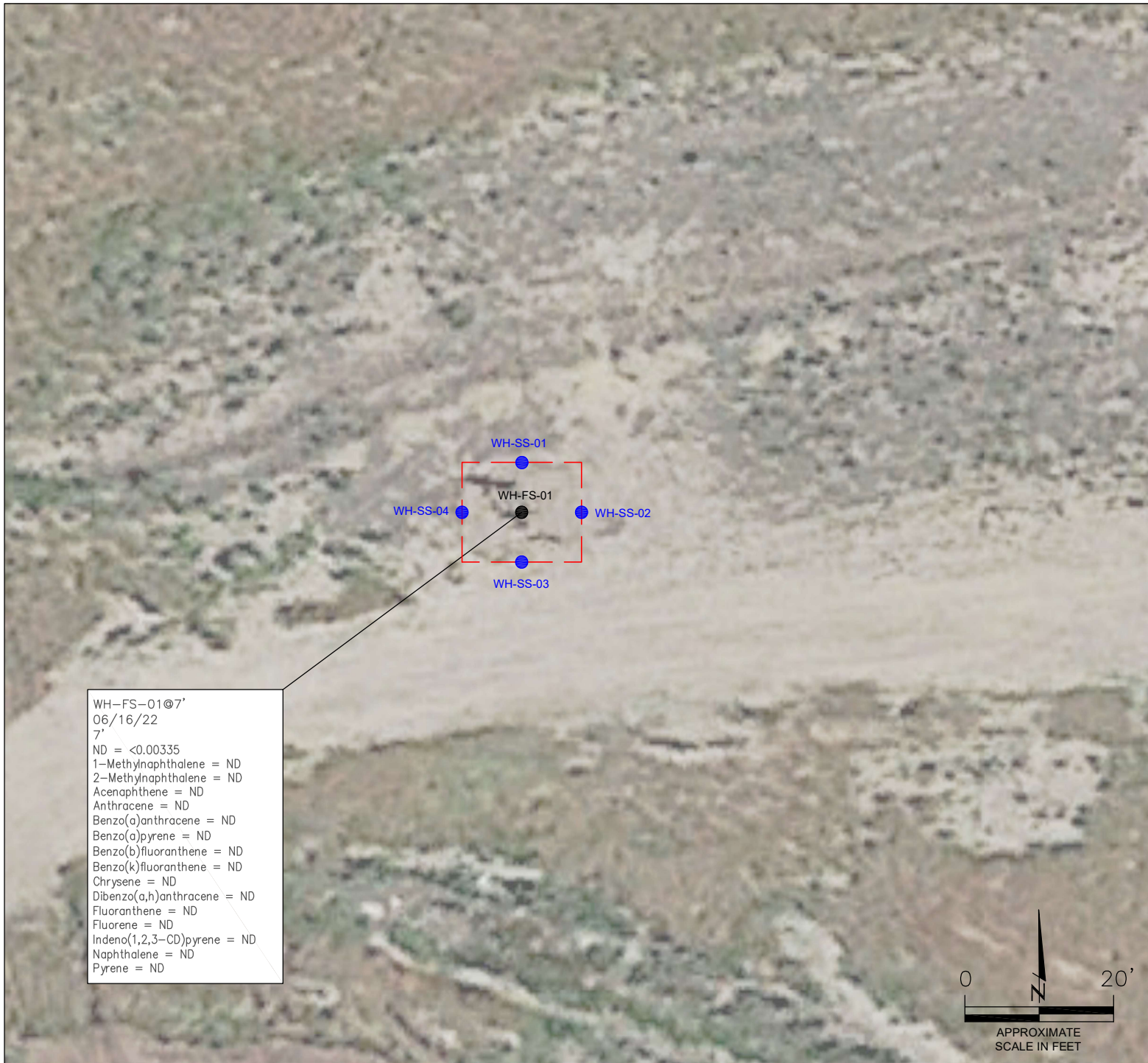
PTF #C 32-8
CLOSURE ASSESSMENT
40.270210 / -104.567750
SE¼ NE¼ SEC.32 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-14879
REMEDIAL # 23204

FIGURE NO.
3

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Ph: 303-433-0479 • F: 303-325-5449



WH-FS-01@7'
06/16/22
7'
ND = <0.00335
1-Methylnaphthalene = ND
2-Methylnaphthalene = ND
Acenaphthene = ND
Anthracene = ND
Benzo(a)anthracene = ND
Benzo(a)pyrene = ND
Benzo(b)fluoranthene = ND
Benzo(k)fluoranthene = ND
Chrysene = ND
Dibenzo(a,h)anthracene = ND
Fluoranthene = ND
Fluorene = ND
Indeno(1,2,3-CD)pyrene = ND
Naphthalene = ND
Pyrene = ND

LEGEND

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

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)

NOTE:
CONCENTRATIONS PRESENTED IN mg/kg

mg/kg = MILLIGRAMS PER KILOGRAM

ND = NON-DETECT

NOTE:
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS.

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP
PTF #C 32-8
CLOSURE ASSESSMENT
40.270210 / -104.567750
SE¼ NE¼ SEC.32 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-14879
REMEDATION # 23204

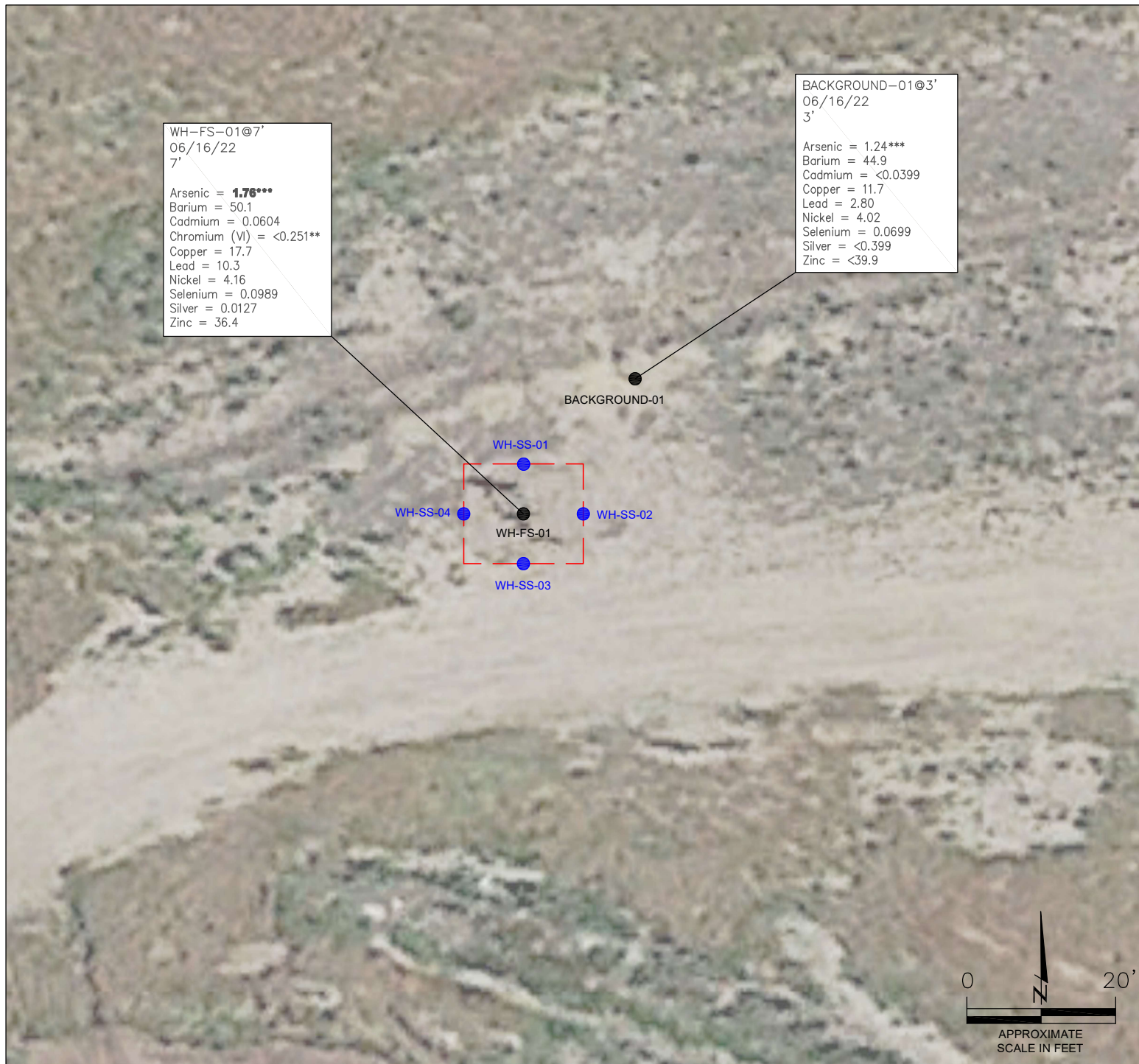
FIGURE NO.
4

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WH-FS-01@7'
06/16/22
7'

Arsenic = **1.76*****
Barium = 50.1
Cadmium = 0.0604
Chromium (VI) = <0.251**
Copper = 17.7
Lead = 10.3
Nickel = 4.16
Selenium = 0.0989
Silver = 0.0127
Zinc = 36.4

BACKGROUND-01@3'
06/16/22
3'

Arsenic = 1.24***
Barium = 44.9
Cadmium = <0.0399
Copper = 11.7
Lead = 2.80
Nickel = 4.02
Selenium = 0.0699
Silver = <0.399
Zinc = <39.9

BACKGROUND-01

WH-SS-01
WH-SS-02
WH-SS-03
WH-SS-04
WH-FS-01

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

NOTES:

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

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

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

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

***ARSENIC IS NATURALLY OCCURRING IN COLORADO. LOCAL CLEAN-UP LEVEL (1.55 mg/kg) IS 1.25*BACKGROUND (1.24 mg/kg).

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

METALS IN SOIL MAP
PTF #C 32-8
CLOSURE ASSESSMENT
40.270210 / -104.567750
SE¼ NE¼ SEC.32 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-14879
REMEDIATION # 23204

FIGURE NO.
5

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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
PTF #C 32-8
CLOSURE ASSESSMENT
40.270210 / -104.567750
SE 1/4 NE 1/4 SEC.32 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-14879
REMEDATION # 23204

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 6' (40.270234 / -104.567751)	06/16/22	6	0.6	N
WH-SS-02 @ 6' (40.270217 / -104.567721)	06/16/22	6	0.2	N
WH-SS-03 @ 6' (40.270199 / -104.567751)	06/16/22	6	0.7	N
WH-SS-04 @ 6' (40.270216 / -104.567780)	06/16/22	6	0.6	N
WH-FS-01 @ 7' (40.270216 / -104.567751)	06/16/22	7	0.8	Y
Background-01 @ 3' (40.270267 / -104.567697)	06/16/22	3	0.2	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
PTF #C 32-8
CLOSURE ASSESSMENT
40.270210 / -104.567750
SE 1/4 NE 1/4 SEC.32 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-14879
REMEDIATION # 23204

Sample Location (Latitude / Longitude)				WH-FS-01 @ 7'	Background-01 @ 3'
Sample Date				6/16/2022	6/16/2022
Sample Depth				7'	3'
PID Reading (ppm-v)				0.8	0.2
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
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	--	--	682
TPH-RRO	mg/kg	500	--	--	2500
Polycyclic Aromatics Hydrocarbons					
1-Methyl-naphthalene	mg/kg	18	0.006	--	<0.00335
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.00335
Acenaphthene	mg/kg	360	0.55	--	<0.00335
Anthracene	mg/kg	1800	5.8	--	<0.00335
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.00335
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.00335
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.00335
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.00335
Chrysene	mg/kg	110	9	--	<0.00335
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.00335
Fluoranthene	mg/kg	240	8.9	--	<0.00335
Fluorene	mg/kg	240	0.54	--	<0.00335
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.00335
Naphthalene	mg/kg	2	0.0038	--	<0.00335
Pyrene	mg/kg	180	1.3	--	<0.00335
Soil Suitability (Inorganics)					
Boron	mg/L	2	--	--	0.588
pH	standard unit	6-8.3	--	--	7.26
Sodium Adsorption Ratio (SAR)	--	<6	--	--	0.438
Specific Conductance (EC)	mmhos/cm	<4	--	--	1.76
Metals					
Arsenic	mg/kg	0.68***	0.29***	1.55***	1.76***
Barium	mg/kg	15000	82	--	50.1
Cadmium	mg/kg	71	0.38	--	0.0604
Copper	mg/kg	3100	46	--	17.7
Lead	mg/kg	400	14	--	10.3
Nickel	mg/kg	1500	26	--	4.16
Selenium	mg/kg	390	0.26	--	0.0989
Silver	mg/kg	390	0.8	--	0.0127
Zinc	mg/kg	23000	370	--	36.4
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	<0.251**
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 SAR = Sodium Adsorption Ratio Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit. Values presented in BOLD exceed ECMC Table 915-1 Regulatory Limits.					
VOCs - Volatile Organic Compounds NA - Not Analyzed RSSLs = Residential Soil Screening Levels GSSLs = Protection of Groundwater Soil Screening Levels TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics					
Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg. *Arsenic is naturally occurring in Colorado. The Local Clean-up Level (1.55 mg/ka) is 1.25*Background (1.24 mg/ka).					



ATTACHMENT A

Photo Log

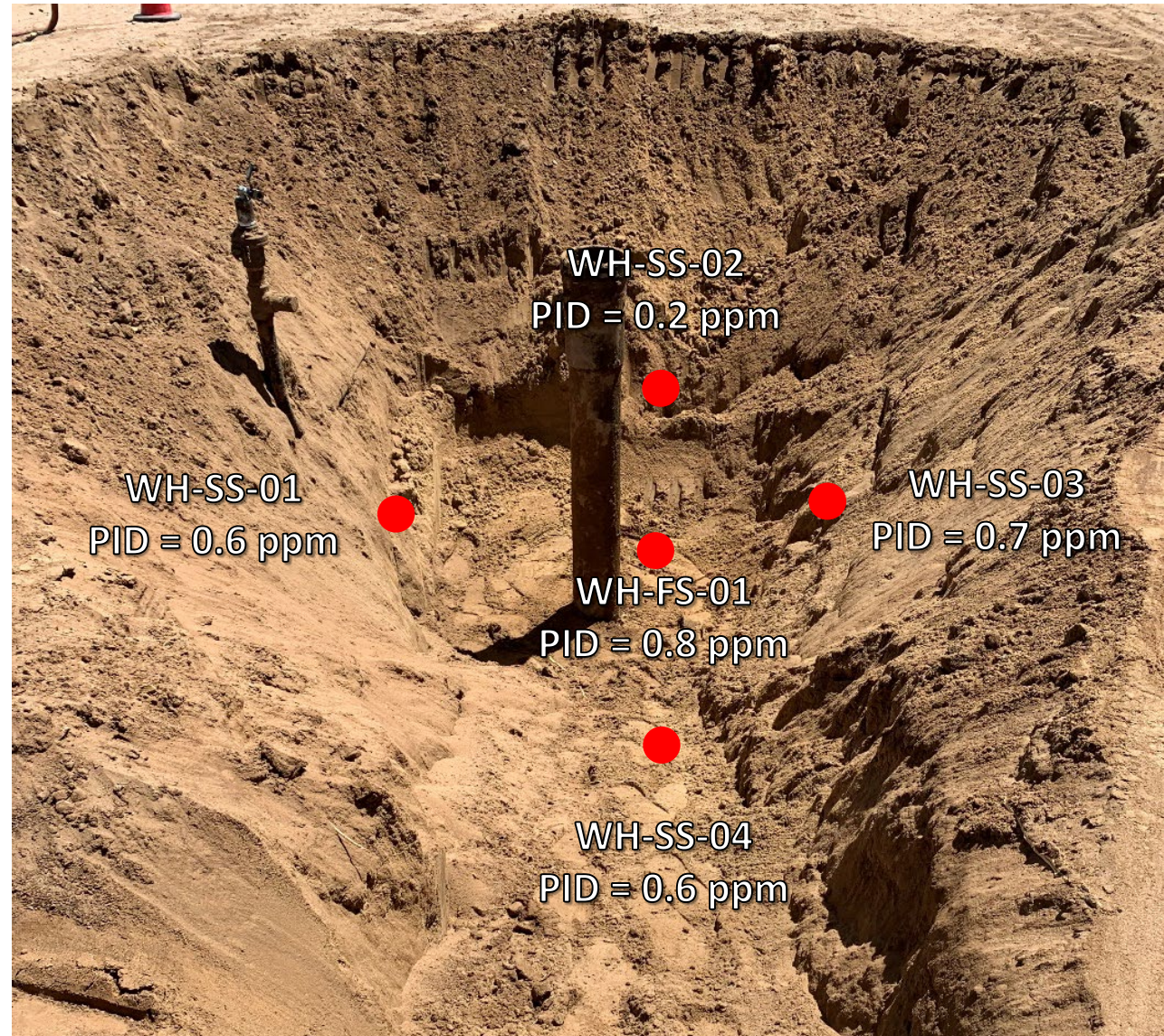
PTF #C 32-8
API # 05-123-14879
Remediation # 23204

Closure Assessment

June 2022



Wellhead Excavation – 06/16/22



Looking east

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Reports



July 05, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - PTF #C 32-8

Project Number - -

Attached are your analytical results for Noble - PTF #C 32-8 received by Origins Laboratory, Inc. June 16, 2022. This project is associated with Origins project number Y206424-01.

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

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

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

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

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

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



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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: -

Project: Noble - PTF #C 32-8

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@7'	Y206424-01	Soil	June 16, 2022 11:38	06/16/2022 14:06

Chain of Custody Modification Request

On 6/28/2022, Grace Congdon from Eagle Environmental contacted Jordan Bynon via email regarding Y206424 requesting that Table 915 Metals be added.

Requested modifications to the chain of custody were made by Jordan Bynon on 6/28/2022.

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

Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

www.originslaboratory.com

page | of |

Y200474

Project Manager: Martin Eckert III

Project Name: PTF #C 32-8

Project Number: -

Samples Collected By: RH

Client: Eagle Env. Consulting

Address: 8000 W 44th Ave.

Wheat Ridge, CO 80033

Telephone Number: 303-433-0479

Email Address: WCE@eagle-env.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil		
WH-FS-01c 7'	6/16/22	1139	2	b				b		10/24/22 10/25/22 10/26/22 10/27/22 10/28/22 10/29/22 10/30/22 10/31/22 11/01/22 11/02/22 11/03/22 11/04/22 11/05/22 11/06/22 11/07/22 11/08/22 11/09/22 11/10/22 11/11/22 11/12/22 11/13/22 11/14/22 11/15/22 11/16/22 11/17/22 11/18/22 11/19/22 11/20/22 11/21/22 11/22/22 11/23/22 11/24/22 11/25/22 11/26/22 11/27/22 11/28/22 11/29/22 11/30/22 12/01/22 12/02/22 12/03/22 12/04/22 12/05/22 12/06/22 12/07/22 12/08/22 12/09/22 12/10/22 12/11/22 12/12/22 12/13/22 12/14/22 12/15/22 12/16/22 12/17/22 12/18/22 12/19/22 12/20/22 12/21/22 12/22/22 12/23/22 12/24/22 12/25/22 12/26/22 12/27/22 12/28/22 12/29/22 12/30/22 12/31/22	1 2 3 4 5 6 7 8 9 10
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											1 2 3 4 5 6 7 8 9 10
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											1 2 3 4 5 6 7 8 9 10

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

Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 17000424

Client: EQC

Client Project ID: PTF C 32-X

Checklist Completed by: KEH

Shipped Via: HD

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

Date/time completed: 6/17/22

Airbill #: N/A

Matrix(s) Received: (Check all that apply): 1 Soil/Solid Water Other:

Cooler Number/Temperature: 1154 °C °C °C (Describe) °C

Thermometer ID: 1004

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

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

Reviewed by JB (Project Manager)

6-18-22
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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

Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

WH-FS-01@7'

6/16/2022 11:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206424-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.588	0.100	mg/L	1	B2F2010	06/20/2022	06/21/2022
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	682	25.0	mg/kg	1	B2F2003	06/20/2022	06/24/2022
Residual Range Organics (C28-C40)	2500	100	"	"	"	"	"

Surrogate: o-Terphenyl	65.6 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2F2120	06/21/2022	06/22/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.0 %	70-130	"	"	"
Surrogate: Toluene-d8	88.8 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

WH-FS-01@7'

6/16/2022 11:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206424-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	104 %	70-130	B2F21 20	06/21/2022	06/22/2022
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Metals by Saturated Paste by EPA 6010

Calcium	45.7	4.99	meq/L	100	[CALC]	06/21/2022	06/22/2022
Magnesium	3.97	0.823	"	10	"	"	"
Sodium	2.18	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L622533	06/20/2022	06/22/2022
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"
Anthracene	ND	0.00167	0.00335	"	"	"	"	"
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"
Chrysene	ND	0.00312	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"
Fluorene	ND	0.00143	0.00335	"	"	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

WH-FS-01@7'

6/16/2022 11:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y206424-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	mg/Kg	5	L622533	06/20/2022	06/22/2022
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"
Pyrene	ND	0.00322	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	44.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	51.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	53.5 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.26	pH Units	1	B2F2114	06/21/2022	06/22/2022
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SAR by 20B Saturated Paste

SAR	0.438	SAR	1	B2F2110	06/21/2022	06/22/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.76	0.00500	mmhos/cm	1	B2F2114	06/21/2022	06/22/2022
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Table 915 metals by EPA 6020B

Arsenic	1.76	0.00100	mg/kg	1	B2F2822	06/28/2022	06/28/2022
Barium	50.1	0.100	"	"	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

WH-FS-01@7'

6/16/2022 11:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206424-01 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.0604	0.00100	mg/kg	1	B2F2822	06/28/2022	06/28/2022
Copper	17.7	0.0100	"	"	"	"	"
Lead	10.3	0.00100	"	"	"	"	"
Nickel	4.16	0.00100	"	"	"	"	"
Selenium	0.0989	0.00100	"	"	"	"	"
Silver	0.0127	0.00100	"	"	"	"	"
Zinc	36.4	0.100	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.251	0.516	mg/Kg	1	L624630	06/16/2022	07/01/2022
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

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 B2F2003 - EPA 3580										
Blank (B2F2003-BLK1)					Prepared: 06/20/2022 Analyzed: 06/24/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		79.4	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

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 B2F2003 - EPA 3580

LCS (B2F2003-BS1)

Prepared: 06/20/2022 Analyzed: 06/24/2022

Diesel (C10-C28)	931	50.0	mg/kg	1000		93.1	70-130			
Residual Range Organics (C28-C40)	827	200	"	1000		82.7	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.4	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

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 B2F2003 - EPA 3580

Matrix Spike (B2F2003-MS1)		Source: Y206403-11			Prepared: 06/20/2022 Analyzed: 06/24/2022					
Diesel (C10-C28)	932	50.0	mg/kg	1000	ND	93.2	70-130			
Residual Range Organics (C28-C40)	826	200	"	1000	ND	82.6	70-130			
Surrogate: o-Terphenyl	39		"	49.8		77.9	50-150			

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Jordan A. Bynon, Project Manager

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

Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

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 B2F2003 - EPA 3580

Matrix Spike Dup (B2F2003-MSD1)		Source: Y206403-11			Prepared: 06/20/2022 Analyzed: 06/24/2022					
Diesel (C10-C28)	933	50.0	mg/kg	1000	ND	93.3	70-130	0.196	35	
Residual Range Organics (C28-C40)	824	200	"	1000	ND	82.4	70-130	0.212	35	
Surrogate: o-Terphenyl	37		"	49.8		75.0	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

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 B2F2120 - EPA 5030 (soil)										
Blank (B2F2120-BLK1)					Prepared: 06/21/2022 Analyzed: 06/22/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.11		"	0.125	91.8		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	100		70-130			

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

Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

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 B2F2120 - EPA 5030 (soil)										
LCS (B2F2120-BS1)					Prepared: 06/21/2022 Analyzed: 06/22/2022					
1,2,4-Trimethylbenzene	0.0988	0.00200	mg/kg	0.100		98.8	70-130			
1,3,5-Trimethylbenzene	0.0986	0.00200	"	0.100		98.6	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.0945	0.00200	"	0.100		94.5	70-130			
Naphthalene	0.108	0.0100	"	0.100		108	70-130			
Toluene	0.0981	0.00200	"	0.100		98.1	70-130			
o-Xylene	0.0987	0.00200	"	0.100		98.7	70-130			
m,p-Xylene	0.199	0.00400	"	0.200		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

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 B2F2120 - EPA 5030 (soil)										
Matrix Spike (B2F2120-MS1)		Source: Y206424-01			Prepared: 06/21/2022 Analyzed: 06/22/2022					
1,2,4-Trimethylbenzene	0.0983	0.00200	mg/kg	0.100	ND	98.3	70-130			
1,3,5-Trimethylbenzene	0.0983	0.00200	"	0.100	ND	98.3	70-130			
Benzene	0.107	0.00200	"	0.100	0.000480	107	70-130			
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130			
Naphthalene	0.0865	0.0100	"	0.100	0.00122	85.3	70-130			
Toluene	0.0982	0.00200	"	0.100	0.00126	97.0	70-130			
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130			
m,p-Xylene	0.222	0.00400	"	0.200	0.000620	111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.2	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

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 B2F2120 - EPA 5030 (soil)										
Matrix Spike Dup (B2F2120-MSD1)		Source: Y206424-01			Prepared: 06/21/2022 Analyzed: 06/22/2022					
1,2,4-Trimethylbenzene	0.0897	0.00200	mg/kg	0.100	ND	89.7	70-130	9.15	20	
1,3,5-Trimethylbenzene	0.0889	0.00200	"	0.100	ND	88.9	70-130	10.1	20	
Benzene	0.106	0.00200	"	0.100	0.000480	106	70-130	0.880	20	
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	6.26	20	
Naphthalene	0.0844	0.0100	"	0.100	0.00122	83.2	70-130	2.43	20	
Toluene	0.0954	0.00200	"	0.100	0.00126	94.1	70-130	2.95	20	
o-Xylene	0.102	0.00200	"	0.100	ND	102	70-130	6.85	20	
m,p-Xylene	0.208	0.00400	"	0.200	0.000620	104	70-130	6.56	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.8	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by SM 3500 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 B2F2822 - Default Prep Metals

Blank (B2F2822-BLK1)

Prepared: 06/28/2022 Analyzed: 06/28/2022

Arsenic	ND	0.00100	mg/kg							U
Barium	ND	0.100	"							U
Cadmium	ND	0.00100	"							U
Copper	ND	0.0100	"							U
Lead	ND	0.00100	"							U
Nickel	ND	0.00100	"							U
Selenium	ND	0.00100	"							U
Silver	ND	0.00100	"							U
Zinc	ND	0.100	"							U

LCS (B2F2822-BS1)

Prepared: 06/28/2022 Analyzed: 06/28/2022

Arsenic	0.0431	0.00100	mg/kg	0.0500		86.3	80-120
Barium	4.99	0.100	"	5.00		99.9	80-120
Cadmium	0.0501	0.00100	"	0.0500		100	80-120
Copper	0.464	0.0100	"	0.500		92.8	80-120
Lead	0.0500	0.00100	"	0.0500		100	80-120
Nickel	0.0532	0.00100	"	0.0500		106	80-120
Selenium	0.0460	0.00100	"	0.0500		92.0	80-120
Silver	0.0480	0.00100	"	0.0500		95.9	80-120
Zinc	0.448	0.100	"	0.500		89.7	80-120

Matrix Spike (B2F2822-MS1)

Source: Y206235-01

Prepared: 06/28/2022 Analyzed: 06/28/2022

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

Metals by SM 3500 Series Methods - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2F2822 - Default Prep Metals										
Matrix Spike (B2F2822-MS1)		Source: Y206235-01			Prepared: 06/28/2022 Analyzed: 06/28/2022					
Arsenic	6.64	0.00100	mg/kg	4.32	2.39	98.6	75-125			
Barium	502	0.100	"	432	49.2	105	75-125			
Cadmium	4.79	0.00100	"	4.32	0.390	102	75-125			
Copper	54.8	0.0100	"	43.2	12.0	99.1	75-125			
Lead	27.7	0.00100	"	4.32	13.7	325	75-125			QM-07, QR-DUP
Nickel	9.89	0.00100	"	4.32	4.26	130	75-125			QM-07
Selenium	4.08	0.00100	"	4.32	0.102	92.2	75-125			
Silver	4.25	0.00100	"	4.32	0.123	95.5	75-125			
Zinc	92.9	0.100	"	43.2	46.4	108	75-125			
Matrix Spike Dup (B2F2822-MSD1)		Source: Y206235-01			Prepared: 06/28/2022 Analyzed: 06/28/2022					
Arsenic	6.28	0.00100	mg/kg	4.30	2.39	90.6	75-125	5.58	20	
Barium	480	0.100	"	430	49.2	100	75-125	4.49	20	
Cadmium	4.65	0.00100	"	4.30	0.390	99.0	75-125	3.06	20	
Copper	53.4	0.0100	"	43.0	12.0	96.4	75-125	2.48	20	
Lead	19.8	0.00100	"	4.30	13.7	143	75-125	33.1	20	QM-07, QR-DUP
Nickel	9.04	0.00100	"	4.30	4.26	111	75-125	9.00	20	
Selenium	3.96	0.00100	"	4.30	0.102	89.7	75-125	3.15	20	
Silver	4.29	0.00100	"	4.30	0.123	97.1	75-125	1.10	20	
Zinc	84.8	0.100	"	43.0	46.4	89.4	75-125	9.16	20	

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2F2114 - NO PREP										
Blank (B2F2114-BLK1)					Prepared: 06/21/2022 Analyzed: 06/22/2022					
Specific Conductance (EC)	0.00200	0.00500	mmhos/cm							
pH	0.00		pH Units							
Duplicate (B2F2114-DUP1)					Source: Y206417-04		Prepared: 06/21/2022 Analyzed: 06/22/2022			
pH	7.66		pH Units		7.82			2.07	25	
Specific Conductance (EC)	0.139	0.00500	mmhos/cm		0.132			5.45	25	

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

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 L624630 -										
DUP (L 84094-DUP)		Source: 84094			Prepared: Analyzed: 07/01/2022					
Chromium, Hexavalent	ND	1.22	mg/Kg		<2.50	-		0	20	
MS (L 84094-MS)		Source: 84094			Prepared: Analyzed: 07/01/2022					
Chromium, Hexavalent	7.92	1.24	mg/Kg	8.14	<1.24	97	75-125			
MSD (L 84094-MSD)		Source: 84094			Prepared: Analyzed: 07/01/2022					
Chromium, Hexavalent	437	24.6	mg/Kg	617	<24.6	71	75-125			*
LCS (LCS)					Prepared: Analyzed: 07/01/2022					
Chromium, Hexavalent	8.35	0.244	mg/Kg	8		104	75-125			
LRB (LRB)					Prepared: Analyzed: 07/01/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg							

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L622533 - 3550B

MSD (L 88846-MSD-L622533)		Source: 88846			Prepared: 06/20/2022 Analyzed: 06/22/2022					
Pyrene	0.102	0.000643	mg/Kg	0.166	<0.000643	61.4	30-130	1.9	30	
Naphthalene	0.0806	0.000484	"	0.166	<0.000484	48.5	30-130	3.4	30	
Indeno(1,2,3-cd)pyrene	0.0748	0.000627	"	0.166	<0.000627	45	30-130	45.6	30	
Fluorene	0.0738	0.000286	"	0.166	<0.000286	44.4	30-130	57.9	30	
Fluoranthene	0.105	0.000394	"	0.166	<0.000394	63.2	30-130	2.8	30	
Dibenz(a,h)anthracene	0.0799	0.000614	"	0.166	<0.000614	48.1	30-130	44	30	
Chrysene	0.0959	0.000624	"	0.166	<0.000624	57.7	30-130	3	30	
Benzo(k)fluoranthene	0.0922	0.000437	"	0.166	<0.000437	55.5	30-130	5.2	30	
Benzo(b)fluoranthene	0.12	0.000585	"	0.166	<0.000585	72.2	30-130	2.4	30	
Benzo(a)pyrene	0.108	0.000468	"	0.166	<0.000468	65	30-130	1.8	30	
Benzo(a)anthracene	0.0987	0.000493	"	0.166	<0.000493	59.4	30-130	3.2	30	
Anthracene	0.0992	0.000334	"	0.166	<0.000334	59.7	30-130	1.7	30	
Acenaphthene	0.0897	0.000304	"	0.166	<0.000304	54	30-130	1.6	30	
2-Methylnaphthalene	0.087	0.000645	"	0.166	<0.000645	52.4	30-130	19.6	30	
1-Methylnaphthalene	0.113	0.000364	"	0.166	<0.000364	68	30-130	3.6	30	
Surrogate: Nitrobenzene-d5	53.9		"	0.332	214	53.9	29-110			
Surrogate: 4-Terphenyl-d14	64.1		"	0.332	230	64.1	33-122			
Surrogate: 2-Fluorobiphenyl	68.3		"	0.332	209	68.3	33-115			

MS (L 88846-MS-L622533)		Source: 88846			Prepared: 06/20/2022 Analyzed: 06/22/2022					
Chrysene	0.0989	0.000624	mg/Kg	0.165	<0.000624	59.9	30-130			
Benzo(k)fluoranthene	0.0972	0.000437	"	0.165	<0.000437	58.9	30-130			
1-Methylnaphthalene	0.109	0.000364	"	0.165	<0.000364	66	30-130			
2-Methylnaphthalene	0.106	0.000645	"	0.165	<0.000645	64.2	30-130			
Acenaphthene	0.0912	0.000304	"	0.165	<0.000304	55.2	30-130			
Anthracene	0.101	0.000334	"	0.165	<0.000334	61.2	30-130			
Benzo(a)anthracene	0.102	0.000493	"	0.165	<0.000493	61.8	30-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L622533 - 3550B

MS (L 88846-MS-L622533)		Source: 88846			Prepared: 06/20/2022 Analyzed: 06/22/2022					
Benzo(a)pyrene	0.11	0.000468	mg/Kg	0.165	<0.000468	66.6	30-130			
Fluoranthene	0.108	0.000394	"	0.165	<0.000394	65.4	30-130			
Benzo(b)fluoranthene	0.123	0.000585	"	0.165	<0.000585	74.5	30-130			
Dibenz(a,h)anthracene	0.125	0.000614	"	0.165	<0.000614	75.7	30-130			
Fluorene	0.134	0.000286	"	0.165	<0.000286	81.2	30-130			
Indeno(1,2,3-cd)pyrene	0.119	0.000627	"	0.165	<0.000627	72.1	30-130			
Naphthalene	0.0834	0.000484	"	0.165	<0.000484	50.5	30-130			
Pyrene	0.104	0.000643	"	0.165	<0.000643	63	30-130			
Surrogate: 2-Fluorobiphenyl	56		"	0.33	209	56	33-115			
Surrogate: 4-Terphenyl-d14	66.3		"	0.33	230	66.3	33-122			
Surrogate: Nitrobenzene-d5	57.5		"	0.33	214	57.5	29-110			

LCS (LCS-L622533)

Prepared: 06/20/2022 Analyzed: 06/22/2022

Fluorene	0.112	0.000286	mg/Kg	0.167		67	30-130
Naphthalene	0.0785	0.000484	"	0.167		47	30-130
Indeno(1,2,3-cd)pyrene	0.109	0.000627	"	0.167		65.2	30-130
Pyrene	0.123	0.000643	"	0.167		73.6	30-130
Benzo(a)pyrene	0.105	0.000468	"	0.167		62.8	30-130
Benzo(k)fluoranthene	0.0936	0.000437	"	0.167		56	30-130
Fluoranthene	0.118	0.000394	"	0.167		70.6	30-130
1-Methylnaphthalene	0.114	0.000364	"	0.167		68.2	30-130
2-Methylnaphthalene	0.0881	0.000645	"	0.167		52.7	30-130
Acenaphthene	0.0904	0.000304	"	0.167		54.1	30-130
Anthracene	0.0941	0.000334	"	0.167		56.3	30-130
Benzo(a)anthracene	0.0995	0.000493	"	0.167		59.5	30-130
Benzo(b)fluoranthene	0.0998	0.000585	"	0.167		59.7	30-130
Chrysene	0.0943	0.000624	"	0.167		56.4	30-130

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L622533 - 3550B										
LCS (LCS-L622533)					Prepared: 06/20/2022 Analyzed: 06/22/2022					
Dibenz(a,h)anthracene	0.12	0.000614	mg/Kg	0.167		71.8	30-130			
Surrogate: Nitrobenzene-d5	70.8		"	0.333		70.8	29-110			
Surrogate: 2-Fluorobiphenyl	74.4		"	0.333		74.4	33-115			
Surrogate: 4-Terphenyl-d14	75.3		"	0.333		75.3	33-122			
LRB (LRB-L622533)					Prepared: 06/20/2022 Analyzed: 06/22/2022					
2-Methylnaphthalene	ND	0.00067	mg/Kg				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	52.5		"	0.333		52.5	29-110			
Surrogate: 4-Terphenyl-d14	59.7		"	0.333		59.7	33-122			
Surrogate: 2-Fluorobiphenyl	51.9		"	0.333		51.9	33-115			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: -
Project: Noble - PTF #C 32-8

Notes and Definitions

U Sample is Non-Detect.

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.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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

Jordan A. Bynon, Project Manager



July 15, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - PTF #C 32-8

Project Number - [none]

Attached are your analytical results for Noble - PTF #C 32-8 received by Origins Laboratory, Inc. June 29, 2022. This project is associated with Origins project number Y206738-01.

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

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

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

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

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

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



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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - PTF #C 32-8

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@3'	Y206738-01	Soil	June 16, 2022 11:40	06/29/2022 12:14

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.

Jen Pellegrini For Jordan A. Bynon, Project Manager

Martin C Eckert III
Project Number: [none]
Project: Noble - PTF #C 32-8

ORIGINS

LABORATORY, INC

www.originslaboratory.com

4200738

page 1 of 1

Client: Eagle Env. Consulting

Address: 8000 W 44th Ave

Wheat Ridge, CO 80033

303-433-0479

Telephone Number:

Email Address: mle3@eagle-enviro.com

Project Manager: Math Eckerl III

Project Name: PTF #C 32-8

Project Number: -

Samples Collected By: RH

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other		
Background-01031	6/16/22	1140	1	X					X			X	MDLs needed
													2
													3
													4
													5
													6
													7
													8
													9
													10
Relinquished By: <u>gh</u>	Date: 6/29/22	Time: 1214											Turnaround Time: Some Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>
Relinquished By:	Date:	Time:											

Bill to Cole

Temp Received: 1.80

Date Results Needed

Mobile

Origins Laboratory, Inc.

Jeff Pelligrini

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - PTF #C 32-8

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 4206738

Client: Eagle/Noble
Client Project ID: PTF 32-8

Checklist Completed by: JP

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

Date/Time completed: 6/30/22

Airbill #: YIFA

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

Cooler Number/Temperature: 1 1.8 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: T003

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

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

Reviewed by (Project Manager) JP

Date/Time Reviewed 7/1/22

Origins Laboratory, Inc.

Jefe Pellegrini

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - PTF #C 32-8

Background-01@3'

6/16/2022 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y206738-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.24	0.0399	mg/kg	4	B2F3007	CW	06/30/2022	07/06/2022	
Barium	44.9	20.0	"	"	"	CW	"	"	
Cadmium	ND	0.0399	"	"	"	CW	"	"	U
Copper	11.7	3.99	"	"	"	CW	"	"	
Lead	2.80	0.399	"	"	"	CW	"	"	
Nickel	4.02	0.399	"	"	"	CW	"	"	
Selenium	0.0699	0.0399	"	"	"	CW	"	"	
Silver	ND	0.399	"	"	"	CW	"	"	U
Zinc	ND	39.9	"	"	"	CW	"	"	U

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - PTF #C 32-8

Metals by SM 3500 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 B2F3007 - Default Prep Metals

Blank (B2F3007-BLK1)

Prepared: 06/30/2022 Analyzed: 07/06/2022

Arsenic	ND	0.000100	mg/kg							U
Barium	ND	0.0500	"							U
Cadmium	ND	0.000100	"							U
Copper	ND	0.0100	"							U
Lead	ND	0.00100	"							U
Nickel	ND	0.00100	"							U
Selenium	ND	0.000100	"							U
Silver	ND	0.00100	"							U
Zinc	ND	0.100	"							U

LCS (B2F3007-BS1)

Prepared: 06/30/2022 Analyzed: 07/06/2022

Arsenic	0.0955	0.000100	mg/kg	0.100		95.5	80-120
Barium	9.41	0.0500	"	10.0		94.1	80-120
Cadmium	0.105	0.000100	"	0.100		105	80-120
Copper	1.03	0.0100	"	1.00		103	80-120
Lead	0.105	0.00100	"	0.100		105	80-120
Nickel	0.105	0.00100	"	0.100		105	80-120
Selenium	0.102	0.000100	"	0.100		102	80-120
Silver	0.107	0.00100	"	0.100		107	80-120
Zinc	0.963	0.100	"	1.00		96.3	80-120

Matrix Spike (B2F3007-MS1)

Source: Y206731-01

Prepared: 06/30/2022 Analyzed: 07/06/2022

Arsenic	9.07	0.0173	mg/kg	8.67	1.87	83.0	75-125
Barium	859	8.67	"	867	38.7	94.5	75-125
Cadmium	9.16	0.0173	"	8.67	0.0825	105	75-125
Copper	80.2	1.73	"	86.7	5.75	85.9	75-125
Lead	14.0	0.173	"	8.67	5.18	102	75-125

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - PTF #C 32-8

Metals by SM 3500 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 B2F3007 - Default Prep Metals

Matrix Spike (B2F3007-MS1)		Source: Y206731-01			Prepared: 06/30/2022 Analyzed: 07/06/2022					
Nickel	14.9	0.173	mg/kg	8.67	6.72	94.5	75-125			
Selenium	6.98	0.0173	"	8.67	0.0743	79.6	75-125			
Silver	9.18	0.173	"	8.67	0.0256	106	75-125			
Zinc	89.2	17.3	"	86.7	17.9	82.3	75-125			
Matrix Spike Dup (B2F3007-MSD1)		Source: Y206731-01			Prepared: 06/30/2022 Analyzed: 07/06/2022					
Arsenic	8.91	0.0180	mg/kg	8.99	1.87	78.3	75-125	1.78	20	
Barium	826	8.99	"	899	38.7	87.6	75-125	3.88	20	
Cadmium	8.86	0.0180	"	8.99	0.0825	97.6	75-125	3.34	20	
Copper	81.5	1.80	"	89.9	5.75	84.3	75-125	1.58	20	
Lead	13.1	0.180	"	8.99	5.18	88.3	75-125	6.74	20	
Nickel	14.2	0.180	"	8.99	6.72	83.2	75-125	4.95	20	
Selenium	7.46	0.0180	"	8.99	0.0743	82.2	75-125	6.69	20	
Silver	8.71	0.180	"	8.99	0.0256	96.6	75-125	5.24	20	
Zinc	90.0	18.0	"	89.9	17.9	80.3	75-125	0.913	20	

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8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - PTF #C 32-8

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 at a wet weight basis.

Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Bynon, Project Manager