



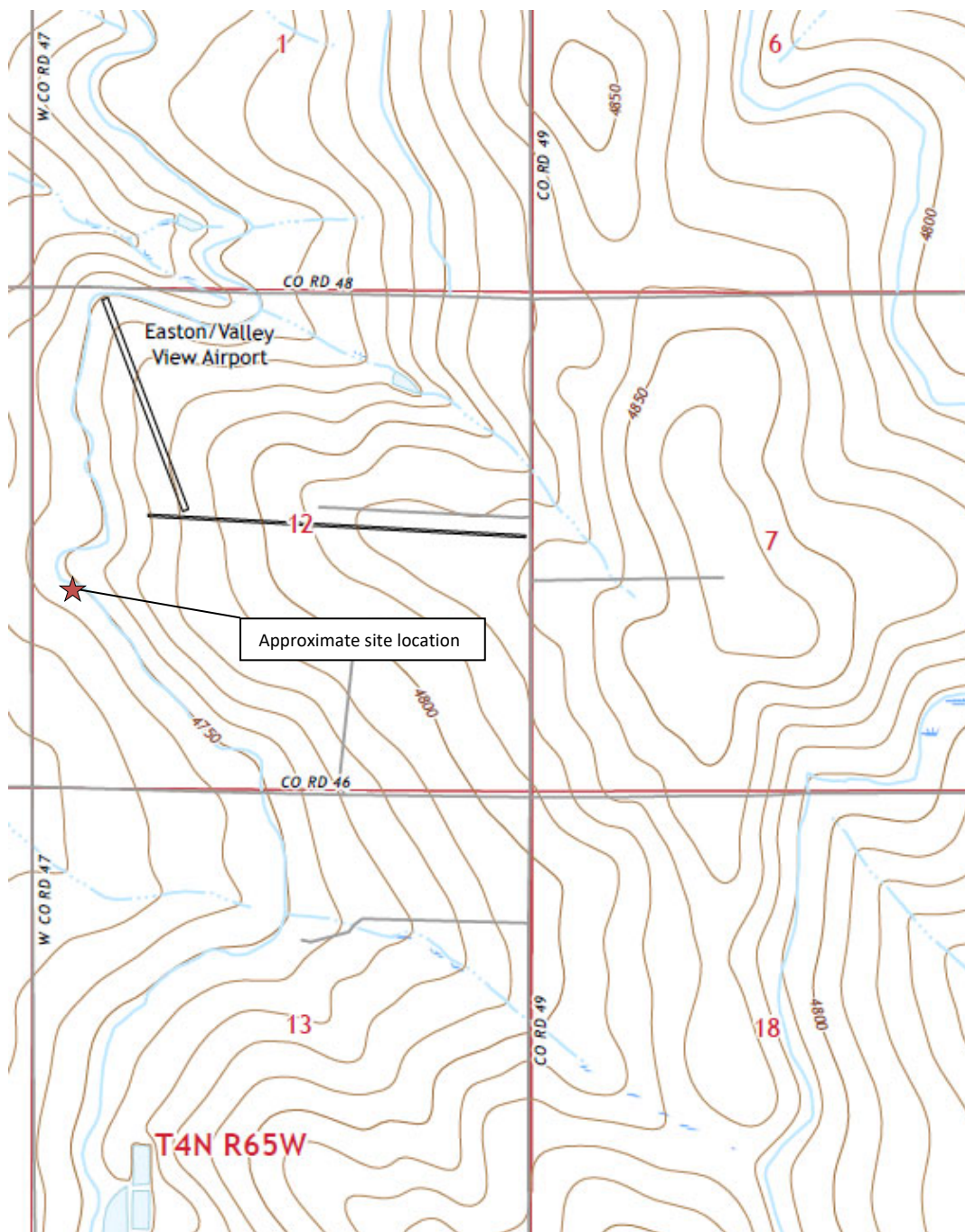
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Polycyclic Aromatic Hydrocarbons Map



Topographic Site Location Map

Fred Arens 6 Tank Battery
 Closure Assessment
 40.325205 / -104.619144
 NE¼ SW¼ SEC.12 T4N R65W 6PM
 Weld County, Colorado
 Location ID 327530
 Remediation # 20814



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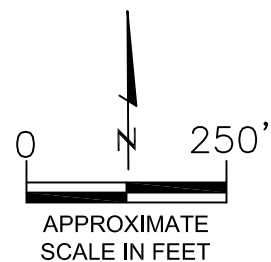
Source: USGS 7.5 Minute Topographic
 Map, Valley View School, CO
 Quadrangle 2019

Figure 1



LEGEND

- FORMER FRED ARENS 6 TANK BATTERY (DECOMMISSIONED)
- APPROXIMATE WATER VAULT LOCATION (REMOVED)
- SEPARATOR CONTAINMENT AREA (DECOMMISSIONED)



AERIAL SITE LOCATION MAP
 FRED ARENS 6 TANK BATTERY
 CLOSURE ASSESSMENT
 40.325205 / -104.619144
 NE¼ SW¼ SEC.12 T4N R65W 6PM
 WELD COUNTY, COLORADO
 LOCATION ID 327530
 REMEDIATION # 20814

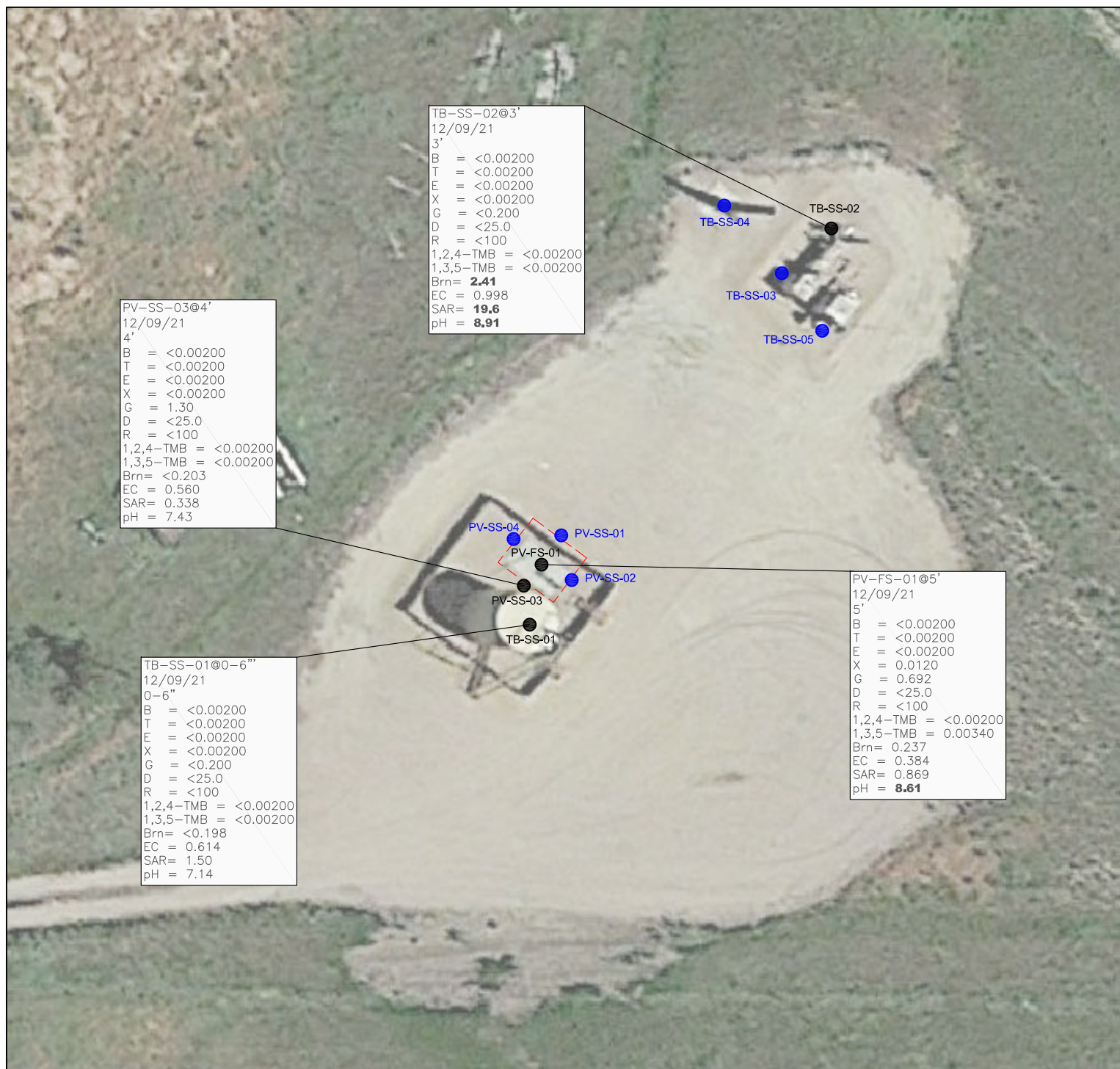
DATE: 12/23/21

FIG. NO.
2

DRAWN BY:
GEC



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 Ph: 303-433-0479 • F: 303-325-5449



LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR (PID)
- 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

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS

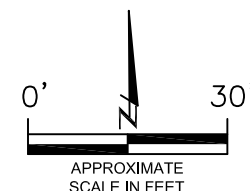
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

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

VALUES PRESENTED IN **BOLD** VALUES CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 GROUNDWATER SOIL SCREENING LEVELS FOR THAT COMPOUND

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

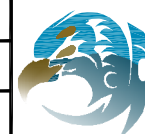


SOIL ANALYTICAL MAP
FRED ARENS 6 TANK BATTERY
CLOSURE ASSESSMENT
40.325205 / -104.619144
NE¼ SW¼ SEC.12 T4N R65W 6PM
WELD COUNTY, COLORADO
LOCATION ID 327530
REMEDATION # 20814

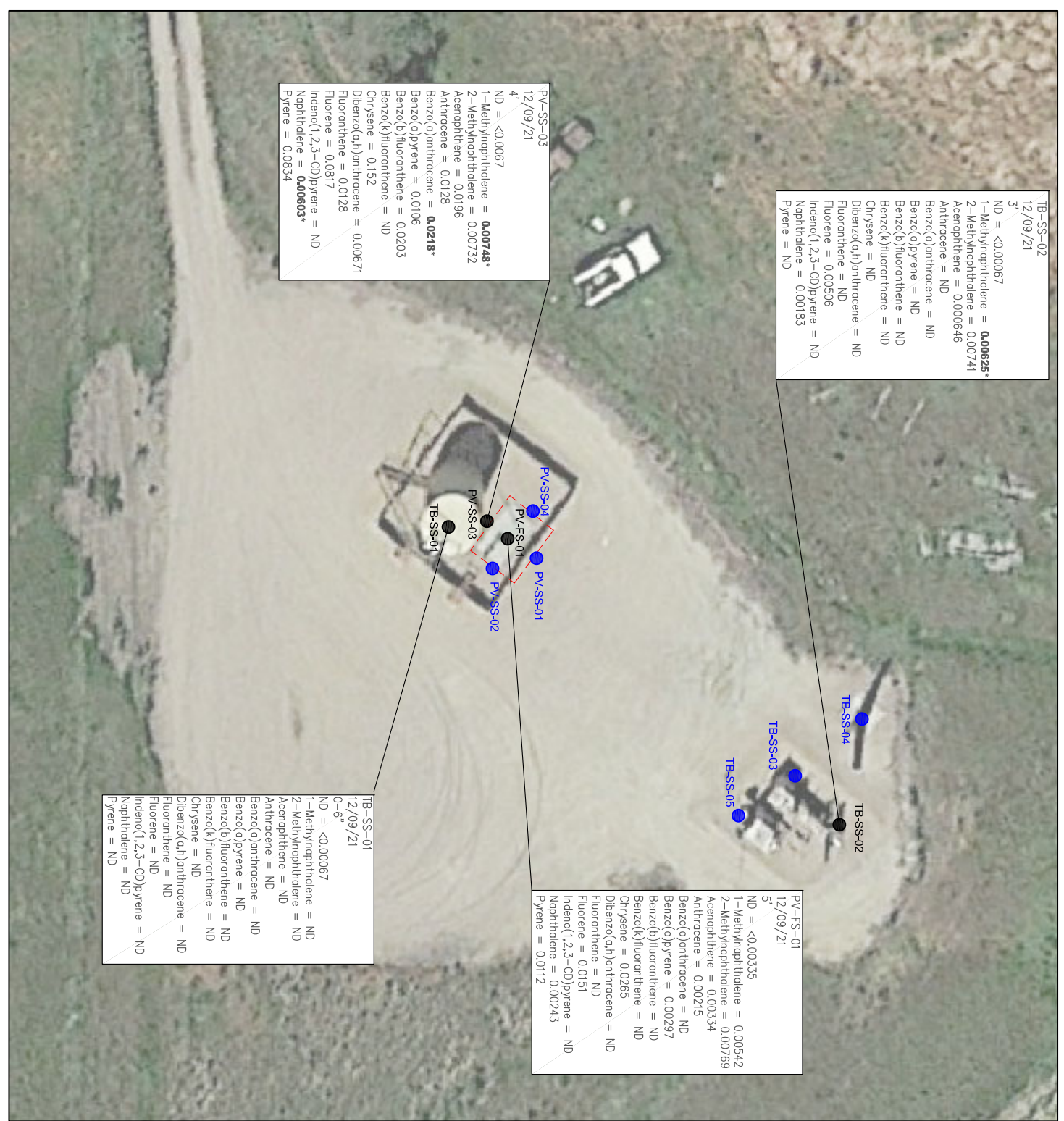
DATE:
12/23/21

DRAWN BY:
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FIG.
NO. 3



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Ph: 303-433-0479 • F: 303-325-5449



LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR (PID)
- 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

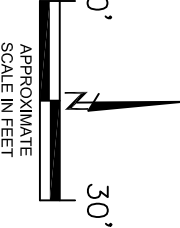
ND = NON-DETECT

NOTE:

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

VALUES PRESENTED IN **BOLD** VALUES CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 REGULATORY LIMITS. VALUES PRESENTED WITH AN ASTERISK (*) EXCEED COGCC TABLE 915-1 GROUNDWATER SOIL SCREENING LEVELS FOR THAT COMPOUND

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION



APPROXIMATE
SCALE IN FEET

POLYCYCLIC AROMATIC HYDROCARBONS MAP

FRED ARENS 6 TANK BATTERY
CLOSURE ASSESSMENT
40.325205 / -104.619144
NE 1/4 SW 1/4 SEC. 12 T4N R65W 6PM
WELD COUNTY, COLORADO
LOCATION ID: 327530
REMEDIATION # 20814

DATE:

12/23/21

DRAWN BY:

GEC

FIG.

NO. 4



8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-434-9479 • F: 303-235-5449



ATTACHMENT A

Photo Log

Fred Arens 6 Tank Battery

Location ID 327530

Remediation # 20814

Closure Assessment

December 2021



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Production Tank – 12/09/21



Looking west

No petroleum hydrocarbon staining or odor observed

Tank removed prior to arrival

Separator Flowline – 12/9/21



Looking southwest

Weathered petroleum hydrocarbon staining and slight odor observed

Separator and flowline removed prior to arrival

Separator Dumpline – 12/09/21



Looking southwest

Weathered petroleum hydrocarbon staining and slight odor observed

Separator removed prior to arrival

Flare Stack – 12/09/21



Looking southwest

No petroleum hydrocarbon staining or odor observed

Flare removed prior to arrival

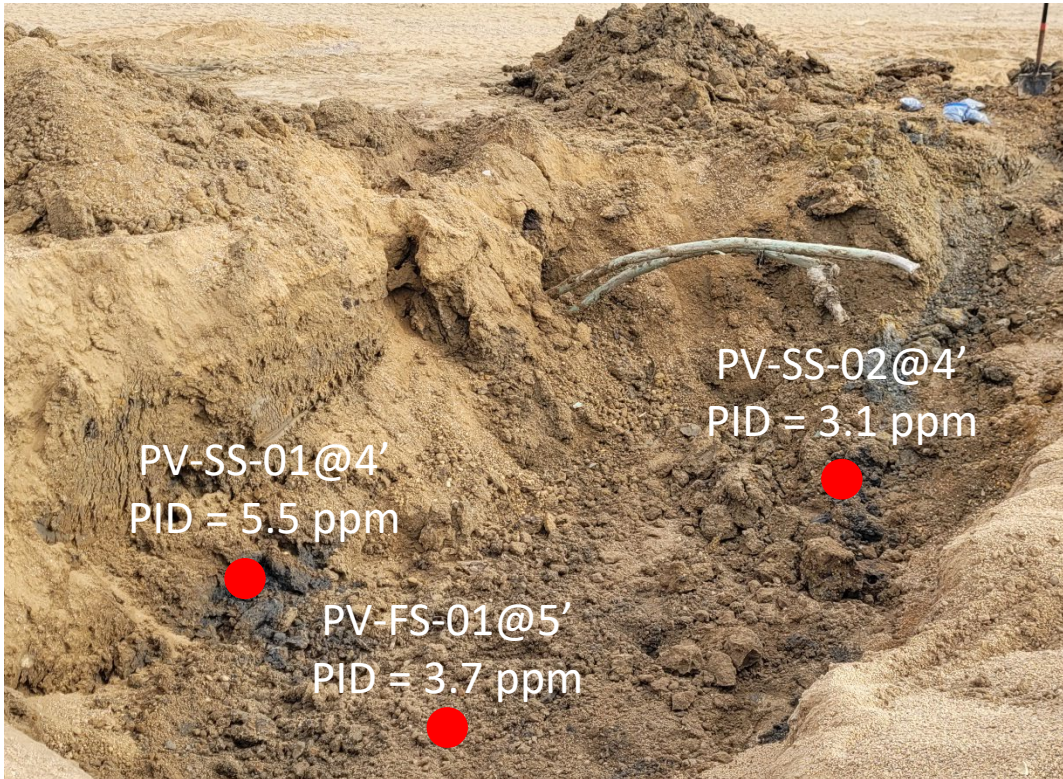
Meter House – 12/09/21



Looking south

No petroleum hydrocarbon staining or odor observed

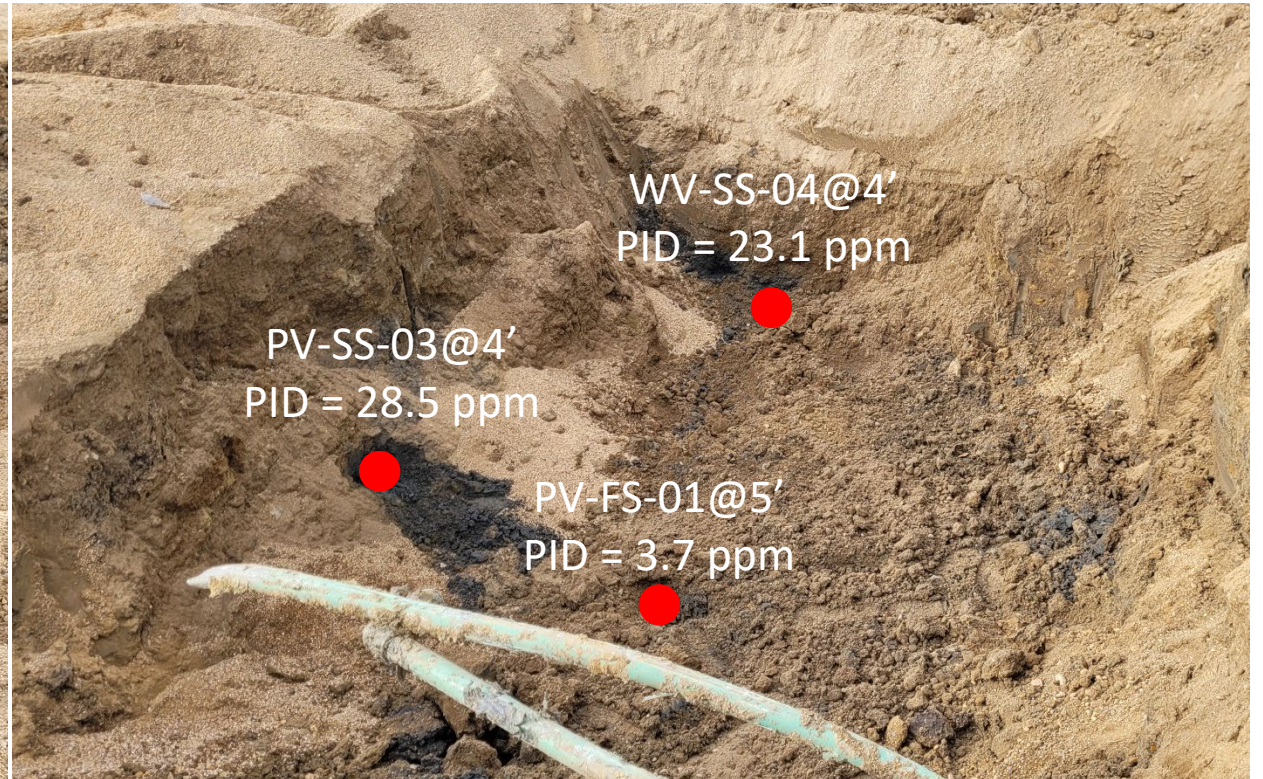
Buried Vault Excavation – 12/09/21



Looking northeast

Former location of buried vault

Weathered petroleum hydrocarbon staining and slight odor observed



Looking southwest

Former location of buried vault

Weathered petroleum hydrocarbon staining and slight odor observed



ATTACHMENT B

Laboratory Analytical Report



December 23, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Fred Arens #6 TB

Project Number - -

Attached are your analytical results for Noble - Fred Arens #6 TB received by Origins Laboratory, Inc. December 09, 2021. This project is associated with Origins project number Y112248-01.

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 - Fred Arens #6 TB

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TB-SS-01@0-6"	Y112248-01	Soil	December 9, 2021 11:50	12/09/2021 14:06
TB-SS-02@3'	Y112248-02	Soil	December 9, 2021 12:03	12/09/2021 14:06
PV-FS-01@5'	Y112248-03	Soil	December 9, 2021 12:21	12/09/2021 14:06
PV-SS-03@4'	Y112248-04	Soil	December 9, 2021 12:24	12/09/2021 14:06

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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: -
Project: Noble - Fred Arens #6 TB

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1112241X

Client: Eagle

Client Project ID: Fred Arens #6 TB

Checklist Completed by: JH

Shipped Via: HD

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

Date/time completed: 12/19/21

Airbill #: NA

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

Cooler Number/Temperature: 1 13.6 °C / 1 °C / 1 °C (Describe)

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⁾ ?	<u>—</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 (Project Manager) JH

Date/Time Reviewed 12/10/21

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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: -
Project: Noble - Fred Arens #6 TB

TB-SS-01@0-6"

12/9/2021 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y112248-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.198	mg/L	1	B1L1001	12/10/2021	12/13/2021	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1L1406	12/14/2021	12/15/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	65.8 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1L1410	12/14/2021	12/23/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	89.1 %	70-130	"	"	"	"	"	"
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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, Project Manager

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

Martin C Eckert III
Project Number: -
Project: Noble - Fred Arens #6 TB

TB-SS-01@0-6"

12/9/2021 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y112248-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.4 %	70-130	B1L14 10	12/14/2021	12/23/2021
Surrogate: 4-Bromofluorobenzene	96.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	7.70	0.499	meq/L	10	[CALC]	12/09/2021	12/14/2021
Magnesium	2.63	0.823	"	"	"	"	"
Sodium	3.40	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L589875	12/14/2021	12/14/2021
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"
Anthracene	ND	0.00033	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.00014	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00021	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"
Chrysene	ND	0.00027	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Martin C Eckert III
Project Number: -
Project: Noble - Fred Arens #6 TB

TB-SS-01@0-6"

12/9/2021 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y112248-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00029	0.00067	mg/Kg	1	L589875	12/14/2021	12/14/2021
Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.00059	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	62.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	72.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	50.3 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.14	pH Units	1	B1L0914	12/09/2021	12/10/2021
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SAR by 20B Saturated Paste

SAR	1.50	SAR	1	B1L0912	12/09/2021	12/14/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.614	0.00500	mmhos/cm	1	B1L0913	12/09/2021	12/10/2021
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Martin C Eckert III
Project Number: -
Project: Noble - Fred Arens #6 TB

TB-SS-02@3'

12/9/2021 12:03:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y112248-02 (Soil)

Boron (DTPA Sorbitol)

Boron	2.41	0.196	mg/L	1	B1L1001	12/10/2021	12/13/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1L1406	12/14/2021	12/15/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	65.9 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1L1410	12/14/2021	12/18/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	76.8 %	70-130	"	"	"	"	"	"
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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, Project Manager

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

Martin C Eckert III
Project Number: -
Project: Noble - Fred Arens #6 TB

TB-SS-02@3'

12/9/2021 12:03:00PM

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

Origins Laboratory, Inc.
Y112248-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	104 %	70-130	B1L14 10	12/14/2021	12/18/2021
Surrogate: 4-Bromofluorobenzene	98.1 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	12/09/2021	12/14/2021
Magnesium	1.73	0.823	"	"	"	"	"
Sodium	20.0	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.00625	0.00033	0.00067	mg/Kg	1	L589875	12/14/2021	12/14/2021
2-Methylnaphthalene	0.00741	0.00039	0.00067	"	"	"	"	"
Acenaphthene	0.000646	0.0003	0.00067	"	"	"	"	J
Anthracene	ND	0.00033	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.00014	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00021	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"
Chrysene	ND	0.00027	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"
Fluoranthene	ND	0.00039	0.00067	"	"	"	"	"
Fluorene	0.00506	0.00029	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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: -
Project: Noble - Fred Arens #6 TB

TB-SS-02@3'

12/9/2021 12:03:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y112248-02 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00029	0.00067	mg/Kg	1	L589875	12/14/2021	12/14/2021
Naphthalene	0.00183	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.00059	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	56.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	72.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	47.1 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.91	pH Units	1	B1L0914	12/09/2021	12/10/2021
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SAR by 20B Saturated Paste

SAR	19.6	SAR	1	B1L0912	12/09/2021	12/14/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.998	0.00500	mmhos/cm	1	B1L0913	12/09/2021	12/10/2021
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Martin C Eckert III
Project Number: -
Project: Noble - Fred Arens #6 TB

PV-FS-01@5'

12/9/2021 12:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y112248-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.237	0.197	mg/L	1	B1L1001	12/10/2021	12/13/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1L1406	12/14/2021	12/15/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	68.8 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1L1410	12/14/2021	12/18/2021	U
1,3,5-Trimethylbenzene	0.00340	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.692	0.200	"	"	"	"	"	
Xylenes, total	0.0120	0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	76.6 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Martin C Eckert III
Project Number: -
Project: Noble - Fred Arens #6 TB

PV-FS-01@5'

12/9/2021 12:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y112248-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 104 % 70-130 B1L14 10 12/14/2021 12/18/2021

Metals by Saturated Paste by EPA 6010

Calcium	2.79	0.499	meq/L	10	[CALC]	12/09/2021	12/14/2021
Magnesium	1.60	0.823	"	"	"	"	"
Sodium	1.29	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.00542	0.00165	0.00335	mg/Kg	5	L589875	12/14/2021	12/14/2021
2-Methylnaphthalene	0.00769	0.00195	0.00335	"	"	"	"	"
Acenaphthene	0.00334	0.0015	0.00335	"	"	"	"	J
Anthracene	0.00215	0.00165	0.00335	"	"	"	"	J
Benzo(a)anthracene	ND	0.00205	0.00335	"	"	"	"	"
Benzo(a)pyrene	0.00297	0.0007	0.00335	"	"	"	"	JB
Benzo(b)fluoranthene	ND	0.00105	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00065	0.00335	"	"	"	"	"
Chrysene	0.0265	0.00135	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.0018	0.00335	"	"	"	"	"
Fluoranthene	ND	0.00195	0.00335	"	"	"	"	"
Fluorene	0.0151	0.00145	0.00335	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00145	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 - Fred Arens #6 TB

PV-FS-01@5'

12/9/2021 12:21:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y112248-03 (Soil)

PAH by 8270D SIM

Naphthalene	0.00243	0.00234	0.00335	mg/Kg	5	L589875	12/14/2021	12/14/2021	J
Pyrene	0.0112	0.00295	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	65.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	73 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	52 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.61	pH Units	1	B1L0914	12/09/2021	12/10/2021
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SAR by 20B Saturated Paste

SAR	0.869	SAR	1	B1L0912	12/09/2021	12/14/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.384	0.00500	mmhos/cm	1	B1L0913	12/09/2021	12/10/2021
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Martin C Eckert III
Project Number: -
Project: Noble - Fred Arens #6 TB

PV-SS-03@4'

12/9/2021 12:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y112248-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.203	mg/L	1	B1L1001	12/10/2021	12/13/2021	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1L1406	12/14/2021	12/15/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	62.0 %	50-150	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1L1410	12/14/2021	12/18/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	1.30	0.200	"	"	"	"	"	
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	77.3 %	70-130	"	"	"	"	"
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Martin C Eckert III
Project Number: -
Project: Noble - Fred Arens #6 TB

PV-SS-03@4'

12/9/2021 12:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y112248-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %	70-130	B1L14 10	12/14/2021	12/18/2021
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	4.19	0.499	meq/L	10	[CALC]	12/09/2021	12/14/2021
Magnesium	2.11	0.823	"	"	"	"	"
Sodium	0.600	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.00748	0.0033	0.0067	mg/Kg	10	L589875	12/14/2021	12/14/2021
2-Methylnaphthalene	0.00732	0.0039	0.0067	"	"	"	"	"
Acenaphthene	0.0196	0.003	0.0067	"	"	"	"	"
Anthracene	0.0128	0.0033	0.0067	"	"	"	"	"
Benzo(a)anthracene	0.0218	0.0041	0.0067	"	"	"	"	"
Benzo(a)pyrene	0.0106	0.0014	0.0067	"	"	"	"	"
Benzo(b)fluoranthene	0.0203	0.0021	0.0067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.0013	0.0067	"	"	"	"	"
Chrysene	0.152	0.0027	0.0067	"	"	"	"	"
Dibenz(a,h)anthracene	0.00671	0.0036	0.0067	"	"	"	"	"
Fluoranthene	0.0128	0.0039	0.0067	"	"	"	"	"
Fluorene	0.0817	0.0029	0.0067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.0029	0.0067	"	"	"	"	"

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 - Fred Arens #6 TB

PV-SS-03@4'

12/9/2021 12:24:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y112248-04 (Soil)

PAH by 8270D SIM

Naphthalene	0.00603	0.00467	0.0067	mg/Kg	10	L589875	12/14/2021	12/14/2021	J
Pyrene	0.0834	0.0059	0.0067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	66.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	71.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.4 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.43			pH Units	1	B1L0914	12/09/2021	12/10/2021	
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SAR by 20B Saturated Paste

SAR	0.338			SAR	1	B1L0912	12/09/2021	12/14/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.560		0.00500	mmhos/cm	1	B1L0913	12/09/2021	12/10/2021	
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Jen Pellegrini, Project Manager

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

Martin C Eckert III
Project Number: -
Project: Noble - Fred Arens #6 TB

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 B1L1406 - EPA 3580										
Blank (B1L1406-BLK1)					Prepared: 12/14/2021 Analyzed: 12/15/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	24.9		77.3	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 - Fred Arens #6 TB

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 B1L1406 - EPA 3580

LCS (B1L1406-BS1)

Prepared: 12/14/2021 Analyzed: 12/15/2021

Diesel (C10-C28)	870	50.0	mg/kg	1000		87.0	70-130			
Residual Range Organics (C28-C40)	903	200	"	1000		90.3	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.2	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 - Fred Arens #6 TB

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 B1L1406 - EPA 3580

Matrix Spike (B1L1406-MS1)		Source: Y112247-01			Prepared: 12/14/2021 Analyzed: 12/15/2021					
Diesel (C10-C28)	877	50.0	mg/kg	1000	ND	87.7	70-130			
Residual Range Organics (C28-C40)	970	200	"	1000	ND	97.0	70-130			
Surrogate: o-Terphenyl	27		"	49.8		53.6	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 - Fred Arens #6 TB

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 B1L1406 - EPA 3580										
Matrix Spike Dup (B1L1406-MSD1)										
					Source: Y112247-01					
					Prepared: 12/14/2021		Analyzed: 12/15/2021			
Diesel (C10-C28)	878	50.0	mg/kg	1000	ND	87.8	70-130	0.0621	35	
Residual Range Organics (C28-C40)	988	200	"	1000	ND	98.8	70-130	1.79	35	
Surrogate: o-Terphenyl	20		"	49.8		40.6	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 - Fred Arens #6 TB

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 B1L1410 - EPA 5030 (soil)										
Blank (B1L1410-BLK1)					Prepared: 12/14/2021 Analyzed: 12/18/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							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	0.12		"	0.125		95.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Martin C Eckert III
Project Number: -
Project: Noble - Fred Arens #6 TB

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1L1410 - EPA 5030 (soil)

LCS (B1L1410-BS1)

Prepared: 12/14/2021 Analyzed: 12/18/2021

1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
Naphthalene	0.116	0.0100	"	0.100		116	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Benzene	0.120	0.00200	"	0.100		120	70-130			
Ethylbenzene	0.114	0.00200	"	0.100		114	70-130			
m,p-Xylene	0.219	0.00400	"	0.200		110	70-130			
o-Xylene	0.110	0.00200	"	0.100		110	70-130			
Toluene	0.113	0.00200	"	0.100		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Martin C Eckert III
Project Number: -
Project: Noble - Fred Arens #6 TB

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 B1L1410 - EPA 5030 (soil)										
Matrix Spike (B1L1410-MS1)		Source: Y112234-01			Prepared: 12/14/2021 Analyzed: 12/18/2021					
1,2,4-Trimethylbenzene	0.144	0.00200	mg/kg	0.100	0.00104	143	70-130			QM-07
Naphthalene	0.129	0.0100	"	0.100	0.000700	128	70-130			
1,3,5-Trimethylbenzene	0.146	0.00200	"	0.100	0.000420	145	70-130			QM-07
Benzene	0.156	0.00200	"	0.100	ND	156	70-130			QM-07
Ethylbenzene	0.160	0.00200	"	0.100	ND	160	70-130			QM-07
m,p-Xylene	0.320	0.00400	"	0.200	0.00308	159	70-130			QM-07
o-Xylene	0.159	0.00200	"	0.100	0.00102	158	70-130			QM-07
Toluene	0.161	0.00200	"	0.100	0.00128	159	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.080		"	0.125		64.4	70-130			QM-07
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: -
Project: Noble - Fred Arens #6 TB

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 B1L1410 - EPA 5030 (soil)										
Matrix Spike Dup (B1L1410-MSD1)		Source: Y112234-01			Prepared: 12/14/2021 Analyzed: 12/18/2021					
1,2,4-Trimethylbenzene	0.116	0.00200	mg/kg	0.100	0.00104	115	70-130	21.4	20	QM-07
Naphthalene	0.115	0.0100	"	0.100	0.000700	114	70-130	11.7	20	
1,3,5-Trimethylbenzene	0.118	0.00200	"	0.100	0.000420	118	70-130	20.7	20	QM-07
Benzene	0.129	0.00200	"	0.100	ND	129	70-130	18.6	20	
Ethylbenzene	0.129	0.00200	"	0.100	ND	129	70-130	21.7	20	QM-07
m,p-Xylene	0.257	0.00400	"	0.200	0.00308	127	70-130	21.8	20	QM-07
o-Xylene	0.128	0.00200	"	0.100	0.00102	127	70-130	21.6	20	QM-07
Toluene	0.129	0.00200	"	0.100	0.00128	127	70-130	22.1	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.085		"	0.125		67.8	70-130			QM-07
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			QM-07
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			QM-07

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Martin C Eckert III
Project Number: -
Project: Noble - Fred Arens #6 TB

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1L1001 - Default Prep Metals

Blank (B1L1001-BLK1)

Prepared: 12/10/2021 Analyzed: 12/13/2021

Boron	ND	0.200	mg/L							U
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Duplicate (B1L1001-DUP1)

Source: Y112234-03

Prepared: 12/10/2021 Analyzed: 12/13/2021

Boron	ND	0.202	mg/L		ND				50	U
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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: -
Project: Noble - Fred Arens #6 TB

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1L0913 - NO PREP										
Blank (B1L0913-BLK1)					Prepared: 12/09/2021 Analyzed: 12/10/2021					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B1L0913-DUP1)					Source: Y112220-04 Prepared: 12/09/2021 Analyzed: 12/10/2021					
Specific Conductance (EC)	0.140	0.00500	mmhos/cm		0.137			2.03	25	
Batch B1L0914 - NO PREP										
Duplicate (B1L0914-DUP1)					Source: Y112220-04 Prepared: 12/09/2021 Analyzed: 12/10/2021					
pH	8.02		pH Units		8.33			3.79	25	

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Martin C Eckert III
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Project: Noble - Fred Arens #6 TB

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L589875 - 3550B

MSD (L 95879-MSD-L589875)		Source: 95879			Prepared: 12/14/2021 Analyzed: 12/14/2021					
Fluoranthene	0.12	0.00039	mg/Kg	0.163	<0.000390	73.6	30-130	1.6	30	
1-Methylnaphthalene	0.103	0.00033	"	0.163	<0.000330	63.1	30-130	1.9	30	
Pyrene	0.12	0.00059	"	0.163	<0.000590	73.6	30-130	3.2	30	
Naphthalene	0.101	0.000467	"	0.163	<0.000467	61.9	30-130	1.9	30	
Fluorene	0.112	0.00029	"	0.163	<0.000290	68.7	30-130	1.7	30	
Dibenz(a,h)anthracene	0.176	0.00036	"	0.163	<0.000360	108	30-130	5.5	30	
Chrysene	0.115	0.00027	"	0.163	<0.000270	70.5	30-130	2.5	30	
Benzo(k)fluoranthene	0.128	0.00013	"	0.163	<0.000130	78.5	30-130	4.5	30	
Benzo(a)pyrene	0.118	0.00014	"	0.163	0.0003	72.3	30-130	1.6	30	
Benzo(a)anthracene	0.109	0.00041	"	0.163	<0.000410	66.8	30-130	3.6	30	
Anthracene	0.114	0.00033	"	0.163	<0.000330	69.9	30-130	2.5	30	
Acenaphthene	0.106	0.0003	"	0.163	<0.000300	65	30-130	3.7	30	
Benzo(b)fluoranthene	0.136	0.00021	"	0.163	<0.000210	83.4	30-130	5.7	30	
2-Methylnaphthalene	0.103	0.00039	"	0.163	<0.000390	63.1	30-130	1.9	30	
Indeno(1,2,3-cd)pyrene	0.164	0.00029	"	0.163	<0.000290	101	30-130	0.6	30	
Surrogate: 2-Fluorobiphenyl	57.9		"	0.326	197	57.9	33-115			
Surrogate: Nitrobenzene-d5	45.7		"	0.326	161	45.7	29-110			
Surrogate: 4-Terphenyl-d14	71.4		"	0.326	239	71.4	33-122			

MS (L 95879-MS-L589875)		Source: 95879			Prepared: 12/14/2021 Analyzed: 12/14/2021					
Pyrene	0.124	0.00059	mg/Kg	0.164	<0.000590	75.6	30-130			
Benzo(k)fluoranthene	0.134	0.00013	"	0.164	<0.000130	81.7	30-130			
Chrysene	0.118	0.00027	"	0.164	<0.000270	71.9	30-130			
Dibenz(a,h)anthracene	0.186	0.00036	"	0.164	<0.000360	113	30-130			
Fluoranthene	0.122	0.00039	"	0.164	<0.000390	74.3	30-130			
Fluorene	0.114	0.00029	"	0.164	<0.000290	69.5	30-130			
Naphthalene	0.103	0.000467	"	0.164	<0.000467	62.8	30-130			

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Project: Noble - Fred Arens #6 TB

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 L589875 - 3550B

MS (L 95879-MS-L589875)		Source: 95879			Prepared: 12/14/2021 Analyzed: 12/14/2021					
1-Methylnaphthalene	0.105	0.00033	mg/Kg	0.164	<0.000330	64	30-130			
Indeno(1,2,3-cd)pyrene	0.165	0.00029	"	0.164	<0.000290	101	30-130			
Benzo(b)fluoranthene	0.144	0.00021	"	0.164	<0.000210	87.8	30-130			
Benzo(a)pyrene	0.12	0.00014	"	0.164	0.0003	73.1	30-130			
Benzo(a)anthracene	0.113	0.00041	"	0.164	<0.000410	68.9	30-130			
Anthracene	0.117	0.00033	"	0.164	<0.000330	71.3	30-130			
Acenaphthene	0.11	0.0003	"	0.164	<0.000300	67	30-130			
2-Methylnaphthalene	0.105	0.00039	"	0.164	<0.000390	64	30-130			
Surrogate: 4-Terphenyl-d14	72		"	0.329	239	72	33-122			
Surrogate: Nitrobenzene-d5	45.8		"	0.329	161	45.8	29-110			
Surrogate: 2-Fluorobiphenyl	59.2		"	0.329	197	59.2	33-115			

LCS (LCS-L589875)		Prepared: 12/14/2021 Analyzed: 12/14/2021								
Benzo(b)fluoranthene	0.15	0.00021	mg/Kg	0.167		89.8	30-130			
Chrysene	0.12	0.00027	"	0.167		71.8	30-130			
Pyrene	0.12	0.00059	"	0.167		71.8	30-130			
Naphthalene	0.0975	0.000467	"	0.167		58.3	30-130			
Indeno(1,2,3-cd)pyrene	0.189	0.00029	"	0.167		113	30-130			
Fluorene	0.111	0.00029	"	0.167		66.4	30-130			
Benzo(a)anthracene	0.111	0.00041	"	0.167		66.4	30-130			
Dibenz(a,h)anthracene	0.204	0.00036	"	0.167		122	30-130			
1-Methylnaphthalene	0.0991	0.00033	"	0.167		59.3	30-130			
Benzo(k)fluoranthene	0.134	0.00013	"	0.167		80.2	30-130			
Benzo(a)pyrene	0.124	0.00014	"	0.167		74.2	30-130			
Anthracene	0.113	0.00033	"	0.167		67.6	30-130			
Acenaphthene	0.104	0.0003	"	0.167		62.2	30-130			
2-Methylnaphthalene	0.0981	0.00039	"	0.167		58.7	30-130			

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PAH by 8270D SIM - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L589875 - 3550B										
LCS (LCS-L589875)					Prepared: 12/14/2021 Analyzed: 12/14/2021					
Fluoranthene	0.12	0.00039	mg/Kg	0.167		71.8	30-130			
Surrogate: Nitrobenzene-d5	47.4		"	0.333		47.4	29-110			
Surrogate: 4-Terphenyl-d14	76.5		"	0.333		76.5	33-122			
Surrogate: 2-Fluorobiphenyl	59.4		"	0.333		59.4	33-115			
LRB (LRB-L589875)					Prepared: 12/14/2021 Analyzed: 12/14/2021					
Dibenz(a,h)anthracene	0.000613	0.00067	mg/Kg				-			J
Benzo(a)pyrene	0.000507	0.00067	"				-			J
Pyrene	0.00061	0.00067	"				-			J
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	0.000656	0.00067	"				-			J
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	0.000397	0.00067	"				-			J
Benzo(b)fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	46.8		"	0.333		46.8	29-110			
Surrogate: 4-Terphenyl-d14	73.5		"	0.333		73.5	33-122			
Surrogate: 2-Fluorobiphenyl	59.4		"	0.333		59.4	33-115			

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Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

JB Estimated Value. Analyte below reported quantitation limit. Analyte detected in blank.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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