



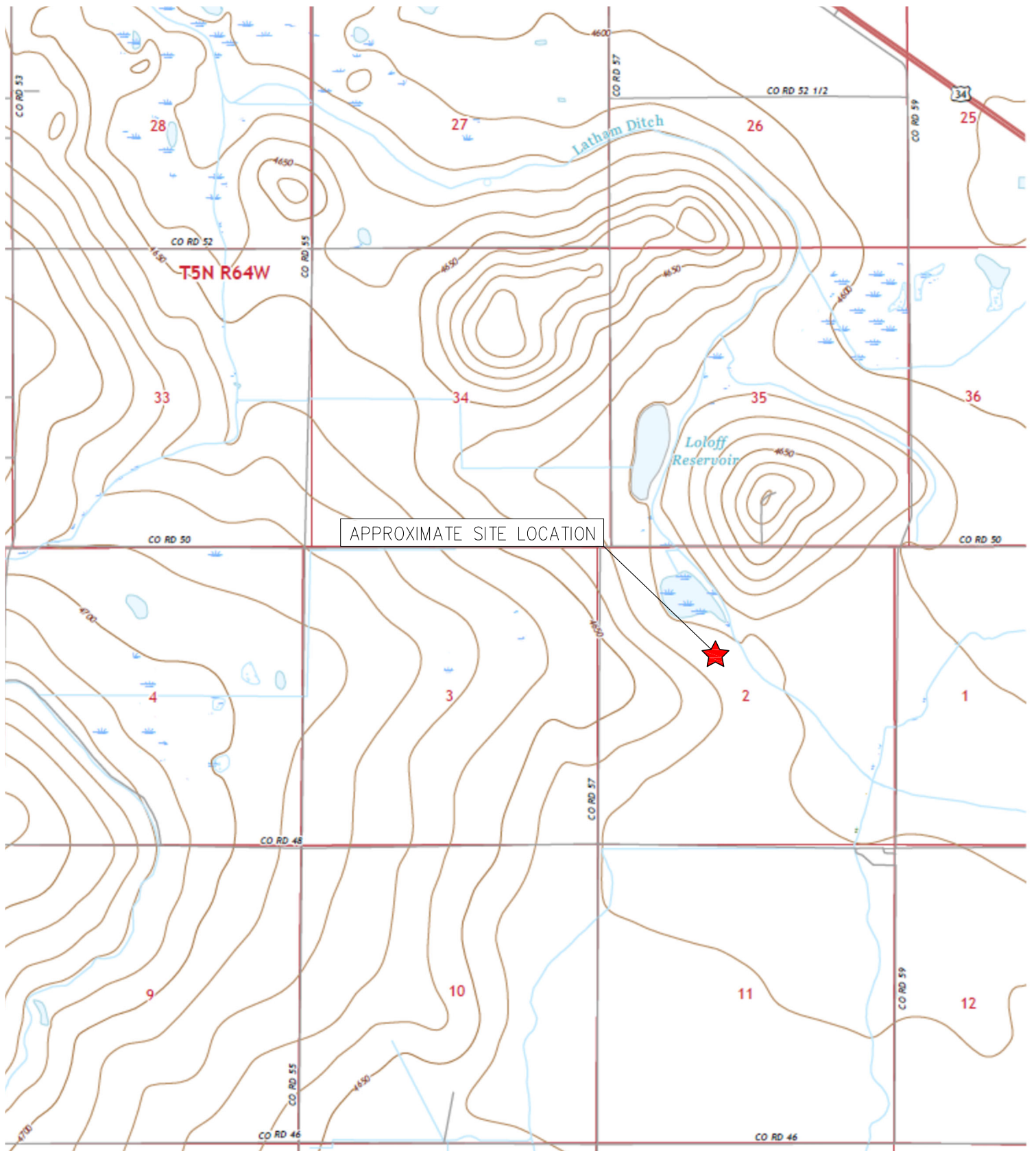
FIGURES

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
 FHA #2-1
 CLOSURE ASSESSMENT
 40.343220 / -104.519930
 SE¼ NW¼ SEC.2 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-12827
 REMEDIATION # 17340



EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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

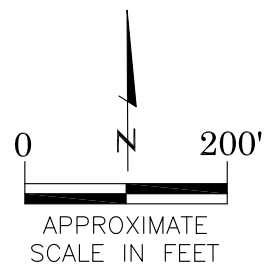
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,
 VALLEY VIEW SCHOOL, CO QUADRANGLE 2022

FIGURE NO. 1



LEGEND

- FORMER FHA #2-1 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR (REMOVED)
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE FLOWLINE SAMPLE LOCATIONS – FIELD SCREENED
- APPROXIMATE FLOWLINE SAMPLE LOCATIONS – LAB SUBMITTED



AERIAL SITE LOCATION MAP

FHA #2-1
CLOSURE ASSESSMENT
40.343220 / -104.519930
SE¼ NW¼ SEC.2 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-12827
REMEDATION # 17340

DRAWN BY:
KM

FIGURE NO.
2



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LEGEND

- FORMER FHA #2-1 WELLHEAD
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (FEET)
 B = BENZENE (mg/kg)
 T = TOLUENE (mg/kg)
 E = ETHYLBENZENE (mg/kg)
 X = TOTAL XYLENES (mg/kg)
 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 = MILLIHOS 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 COGCC TABLE 915-1 REGULATORY LIMITS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

SOIL ANALYTICAL MAP

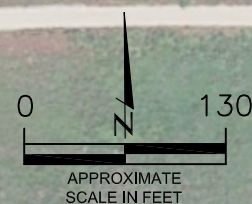
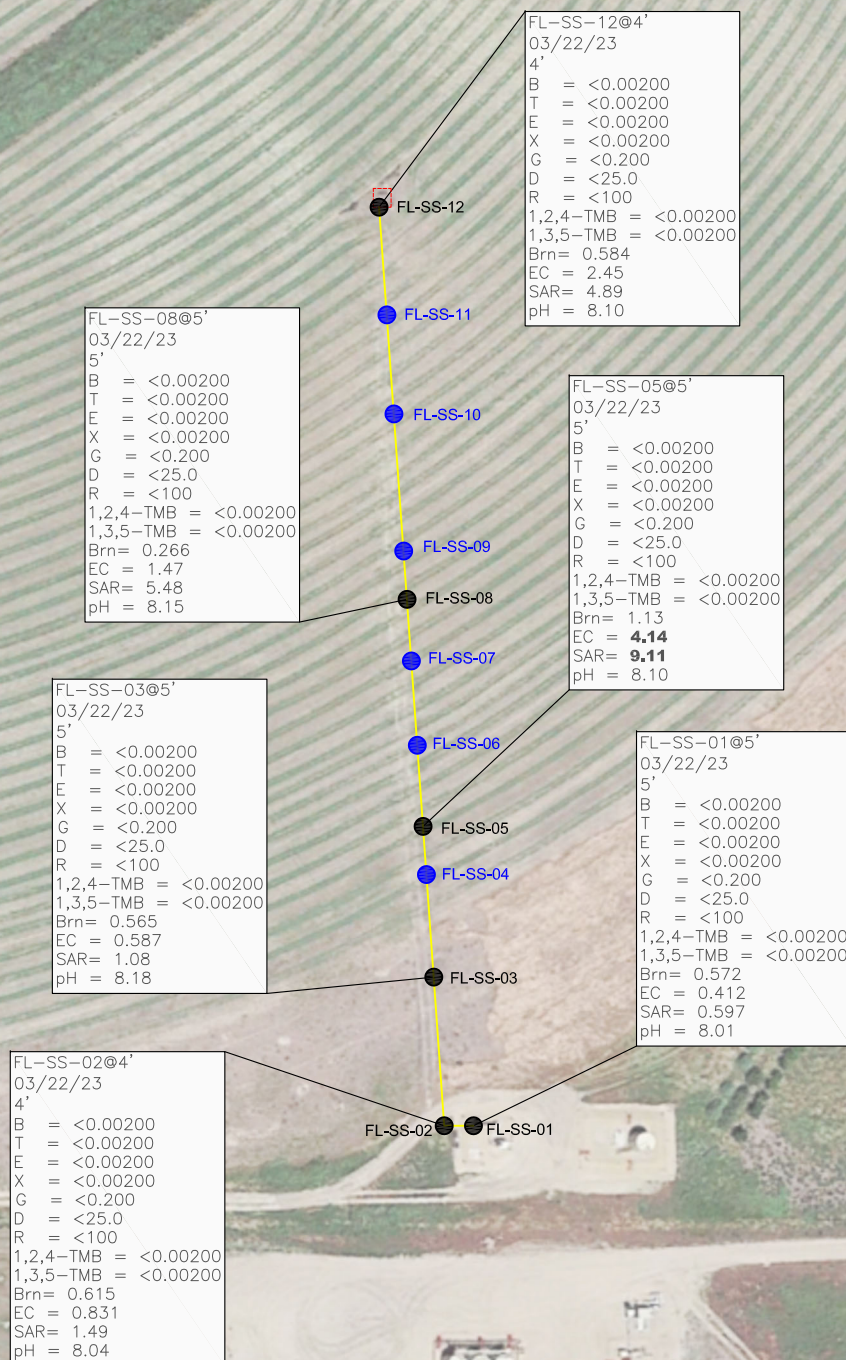
FHA #2-1
 CLOSURE ASSESSMENT
 40.343220 / -104.519930
 SE¼ NW¼ SEC.2 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-12827
 REMEDIATION # 17340

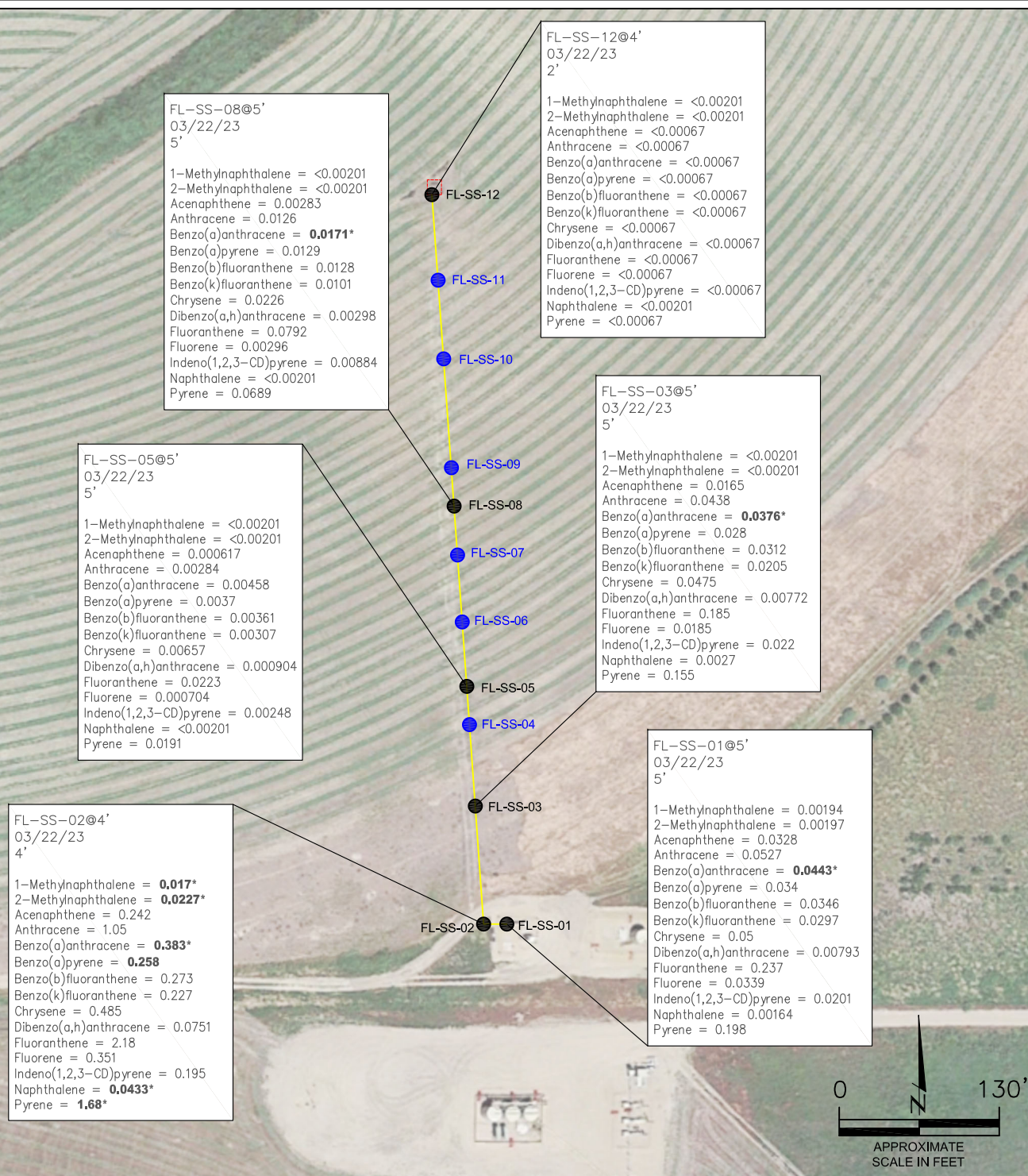
DRAWN BY:
 KM

FIGURE NO.
 3



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LEGEND

- FORMER FHA #2-1 WELLHEAD
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

NOTES:

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

VALUES PRESENTED IN **BOLD** CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 REGULATORY LIMITS.

VALUES PRESENTED WITH AN ASTERISK (*) EXCEED COGCC TABLE 915-1 GROUNDWATER SOIL SCREENING LEVELS, ONLY.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP

FHA #2-1
CLOSURE ASSESSMENT
40.343220 / -104.519930
SEC¼ NW¼ SEC.2 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-12827
REMEDATION # 17340

DRAWN BY:
KM

FIGURE NO.
4



EAGLE
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Ph: 303-433-0479 • F: 303-325-5449



ATTACHMENT A

Photo Log

FHA #2-1
API # 05-123-12827
Remediation #17340

Closure Assessment

March 2023

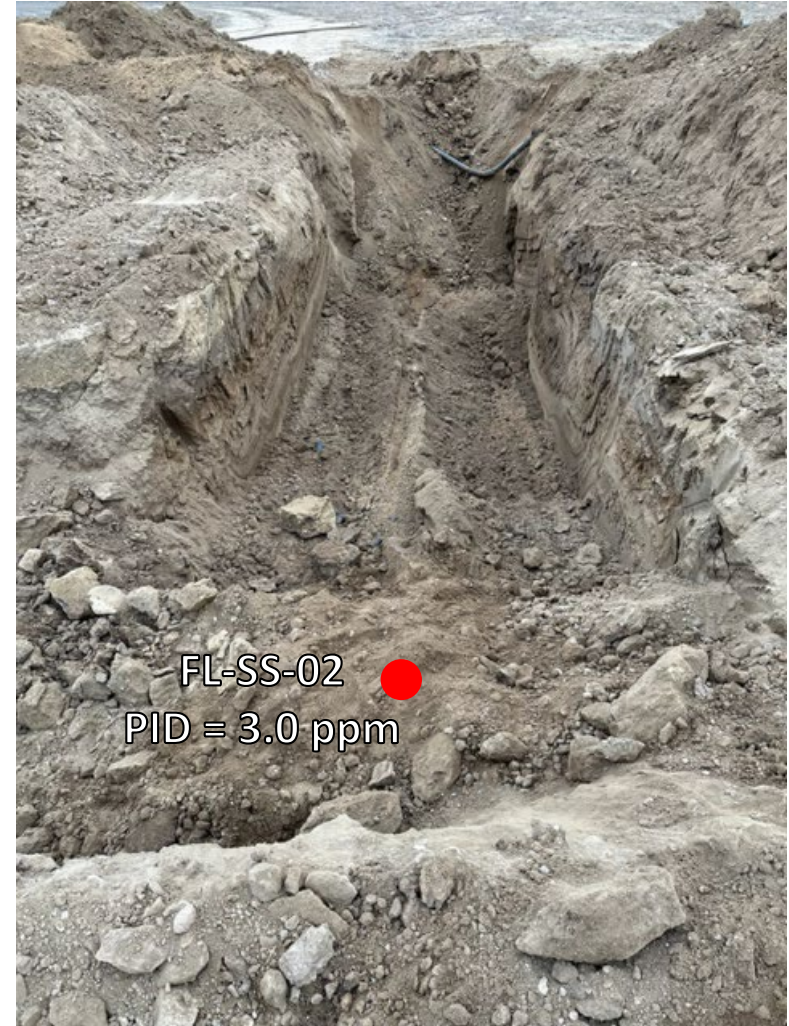


Flowline Removal – 03/22/23



Looking east at flowline terminus/Pt. B at separator

No petroleum hydrocarbon staining or odor observed



Looking east at flowline change of direction (south to east)

No petroleum hydrocarbon staining or odor observed

Flowline Removal – 03/22/23



Looking north along flowline removal trench

No petroleum hydrocarbon staining or odor observed



Looking north along flowline removal trench

No petroleum hydrocarbon staining or odor observed

Flowline Removal – 03/22/23



Looking north along flowline removal trench

No petroleum hydrocarbon staining or odor observed



Looking north along flowline removal trench

No petroleum hydrocarbon staining or odor observed

Flowline Removal – 03/22/23



Looking north along flowline removal trench

No petroleum hydrocarbon staining or odor observed



Looking north along flowline removal trench

No petroleum hydrocarbon staining or odor observed

Flowline Removal – 03/22/23



FL-SS-09
PID = 0.2 ppm

Looking north along flowline removal trench

No petroleum hydrocarbon staining or odor observed



FL-SS-10
PID = 0.7 ppm

Looking north along flowline removal trench

No petroleum hydrocarbon staining or odor observed

Flowline Removal – 03/22/23



Looking north along flowline removal trench

No petroleum hydrocarbon staining or odor observed



Looking north at flowline Pt. A/terminus at wellhead

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Report



March 31, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - FHA #2-1

Project Number - [none]

Attached are your analytical results for Noble - FHA #2-1 received by Origins Laboratory, Inc. March 22, 2023. This project is associated with Origins project number Y303609-01.

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

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

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

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

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

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



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-01@5'	Y303609-01	Soil	March 22, 2023 9:06	03/22/2023 16:38
FL-SS-02@4'	Y303609-02	Soil	March 22, 2023 9:08	03/22/2023 16:38
FL-SS-03@5'	Y303609-03	Soil	March 22, 2023 9:10	03/22/2023 16:38
FL-SS-05@5'	Y303609-04	Soil	March 22, 2023 9:14	03/22/2023 16:38
FL-SS-08@5'	Y303609-05	Soil	March 22, 2023 9:20	03/22/2023 16:38
FL-SS-12@4'	Y303609-06	Soil	March 22, 2023 9:28	03/22/2023 16:38

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.

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

[illegible]

Origins Laboratory, Inc.

Byron

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4303609 Client: Eagle Environ.
Client Project ID: FHA #2-1

Checklist Completed by: JAE/DE Shipped Via: HD
Date/time completed: 3/23/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: NA

Matrix(s) Received: (Check all that apply): X Soil/Solid Water Other:
Cooler Number/Temperature: 1, 3.5 °C 1 °C 1 °C (Describe) °C
Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽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: JAE (Project Manager) Date/Time Reviewed: 3-24-23

Origins Laboratory, Inc.

J. Bynon

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

FL-SS-01@5'
3/22/2023 9:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303609-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.572	0.0995	mg/L	1	B3C2710	03/27/2023	03/28/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2422	03/24/2023	03/28/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	70.7 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2346	03/23/2023	03/28/2023	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	109 %	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.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

FL-SS-01@5'

3/22/2023 9:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303609-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.1 %	70-130	B3C23 46	03/23/2023	03/28/2023
Surrogate: 4-Bromofluorobenzene	93.2 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	1.58	0.499	meq/L	10	[CALC]	03/27/2023	03/29/2023
Magnesium	1.25	0.823	"	"	"	"	"
Sodium	0.710	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.00194	0.00109	0.00201	mg/Kg	1	L672666	03/28/2023	03/29/2023	J
2-Methylnaphthalene	0.00197	0.00194	0.00201	"	"	"	"	"	J
Acenaphthene	0.0328	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.0527	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.0443	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.034	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.0346	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.0297	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.05	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.00793	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.237	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0339	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	0.0201	0.000627	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

FL-SS-01@5'

3/22/2023 9:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303609-01 (Soil)

PAH by 8270D SIM

Naphthalene	0.00164	0.00145	0.00201	mg/Kg	1	L672666	03/28/2023	03/29/2023	J
Pyrene	0.198	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	53.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	74.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.01			pH Units	1	B3C2707	03/27/2023	03/28/2023	
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SAR by 20B Saturated Paste

SAR	0.597			SAR	1	B3C2704	03/27/2023	03/29/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.412		0.00500	mmhos/cm	1	B3C2707	03/27/2023	03/28/2023	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

FL-SS-02@4'
3/22/2023 9:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303609-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.615	0.0984	mg/L	1	B3C2710	03/27/2023	03/28/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2422	03/24/2023	03/28/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	71.8 %	50-150	"	"	"	"	"
------------------------	--------	--------	---	---	---	---	---

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2346	03/23/2023	03/28/2023	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	111 %	70-130	"	"	"	"	"
----------------------------------	-------	--------	---	---	---	---	---

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

FL-SS-02@4'

3/22/2023 9:08:00AM

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

Origins Laboratory, Inc.
Y303609-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.6 %	70-130				B3C23 46	03/23/2023	03/28/2023
Surrogate: 4-Bromofluorobenzene	94.4 %	70-130				"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.77	0.499	meq/L	10	[CALC]	03/27/2023	03/29/2023
Magnesium	2.44	0.823	"	"	"	"	"
Sodium	2.40	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.017	0.00109	0.00201	mg/Kg	1	L672666	03/28/2023	03/29/2023
2-Methylnaphthalene	0.0227	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.242	0.000304	0.00067	"	"	"	"	"
Anthracene	1.05	0.00167	0.00335	"	5	"	"	"
Benzo(a)anthracene	0.383	0.000493	0.00067	"	1	"	"	"
Benzo(a)pyrene	0.258	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.273	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.227	0.000437	0.00067	"	"	"	"	"
Chrysene	0.485	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	0.0751	0.000614	0.00067	"	"	"	"	"
Fluoranthene	2.18	0.00197	0.00335	"	5	"	"	"
Fluorene	0.351	0.000286	0.00067	"	1	"	"	"
Indeno(1,2,3-cd)pyrene	0.195	0.000627	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

FL-SS-02@4'

3/22/2023 9:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303609-02 (Soil)

PAH by 8270D SIM

Naphthalene	0.0433	0.00145	0.00201	mg/Kg	1	L672666	03/28/2023	03/29/2023	
Pyrene	1.68	0.00322	0.00335	"	5	"	"	"	

Surrogate: 2-Fluorobiphenyl	52.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	76.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	50.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.04			pH Units	1	B3C2707	03/27/2023	03/28/2023	
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SAR by 20B Saturated Paste

SAR	1.49			SAR	1	B3C2704	03/27/2023	03/29/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.831		0.00500	mmhos/cm	1	B3C2707	03/27/2023	03/28/2023	
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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.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

FL-SS-03@5'
3/22/2023 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303609-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.565	0.0997	mg/L	1	B3C2710	03/27/2023	03/28/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2422	03/24/2023	03/28/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	71.3 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2346	03/23/2023	03/28/2023	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	115 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

FL-SS-03@5'

3/22/2023 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303609-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.1 %	70-130	B3C23 46	03/23/2023	03/28/2023
Surrogate: 4-Bromofluorobenzene	91.1 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.45	0.499	meq/L	10	[CALC]	03/27/2023	03/29/2023
Magnesium	1.53	0.823	"	"	"	"	"
Sodium	1.52	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L672666	03/28/2023	03/29/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.0165	0.000304	0.00067	"	"	"	"	"
Anthracene	0.0438	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.0376	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.028	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.0312	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.0205	0.000437	0.00067	"	"	"	"	"
Chrysene	0.0475	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	0.00772	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.185	0.000394	0.00067	"	"	"	"	"
Fluorene	0.0185	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	0.022	0.000627	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

FL-SS-03@5'

3/22/2023 9:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303609-03 (Soil)

PAH by 8270D SIM

Naphthalene	0.0027	0.00145	0.00201	mg/Kg	1	L672666	03/28/2023	03/29/2023	
Pyrene	0.155	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	55.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	72.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.18			pH Units	1	B3C2707	03/27/2023	03/28/2023	
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SAR by 20B Saturated Paste

SAR	1.08			SAR	1	B3C2704	03/27/2023	03/29/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.587		0.00500	mmhos/cm	1	B3C2707	03/27/2023	03/28/2023	
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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.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

FL-SS-05@5'

3/22/2023 9:14:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303609-04 (Soil)

Boron (DTPA Sorbitol)

Boron	1.13	0.0982	mg/L	1	B3C2710	03/27/2023	03/28/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2422	03/24/2023	03/28/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	69.4 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2346	03/23/2023	03/28/2023	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	110 %	70-130			"	"	"
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

FL-SS-05@5'

3/22/2023 9:14:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303609-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.8 %	70-130	B3C23 46	03/23/2023	03/28/2023
Surrogate: 4-Bromofluorobenzene	92.4 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	8.76	0.499	meq/L	10	[CALC]	03/27/2023	03/29/2023
Magnesium	10.3	0.823	"	"	"	"	"
Sodium	28.1	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L672666	03/28/2023	03/29/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.000617	0.000304	0.00067	"	"	"	"	" J
Anthracene	0.00284	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.00458	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.0037	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.00361	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.00307	0.000437	0.00067	"	"	"	"	"
Chrysene	0.00657	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	0.000904	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.0223	0.000394	0.00067	"	"	"	"	"
Fluorene	0.000704	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	0.00248	0.000627	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

FL-SS-05@5'

3/22/2023 9:14:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303609-04 (Soil)

PAH by 8270D SIM

Naphthalene	ND	0.00145	0.00201	mg/Kg	1	L672666	03/28/2023	03/29/2023	
Pyrene	0.0191	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	56.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	69.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.9 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.10			pH Units	1	B3C2707	03/27/2023	03/28/2023	
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SAR by 20B Saturated Paste

SAR	9.11			SAR	1	B3C2704	03/27/2023	03/29/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.14		0.00500	mmhos/cm	1	B3C2707	03/27/2023	03/28/2023	
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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.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

FL-SS-08@5'
3/22/2023 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303609-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.266	0.0981	mg/L	1	B3C2710	03/27/2023	03/28/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2422	03/24/2023	03/28/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	62.9 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2346	03/23/2023	03/28/2023	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	108 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

FL-SS-08@5'

3/22/2023 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303609-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.9 %	70-130				B3C23 46	03/23/2023	03/28/2023
Surrogate: 4-Bromofluorobenzene	92.0 %	70-130				"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.41	0.499	meq/L	10	[CALC]	03/27/2023	03/29/2023
Magnesium	2.70	0.823	"	"	"	"	"
Sodium	8.75	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L672666	03/28/2023	03/29/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.00283	0.000304	0.00067	"	"	"	"	"
Anthracene	0.0126	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.0171	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.0129	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.0128	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.0101	0.000437	0.00067	"	"	"	"	"
Chrysene	0.0226	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	0.00298	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.0792	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00296	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	0.00884	0.000627	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

FL-SS-08@5'

3/22/2023 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303609-05 (Soil)

PAH by 8270D SIM

Naphthalene	ND	0.00145	0.00201	mg/Kg	1	L672666	03/28/2023	03/29/2023
Pyrene	0.0689	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	58.9 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	71.8 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	55.8 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.15			pH Units	1	B3C2707	03/27/2023	03/28/2023
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SAR by 20B Saturated Paste

SAR	5.48			SAR	1	B3C2704	03/27/2023	03/29/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.47		0.00500	mmhos/cm	1	B3C2707	03/27/2023	03/28/2023
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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.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

FL-SS-12@4'
3/22/2023 9:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303609-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.584	0.0996	mg/L	1	B3C2710	03/27/2023	03/28/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2422	03/24/2023	03/28/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	66.9 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2346	03/23/2023	03/28/2023	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	111 %	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.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

FL-SS-12@4'

3/22/2023 9:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303609-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %	70-130	B3C23 46	03/23/2023	03/28/2023
Surrogate: 4-Bromofluorobenzene	92.9 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	7.37	0.499	meq/L	10	[CALC]	03/27/2023	03/29/2023
Magnesium	7.53	0.823	"	"	"	"	"
Sodium	13.4	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L672666	03/28/2023	03/29/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

FL-SS-12@4'

3/22/2023 9:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303609-06 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L672666	03/28/2023	03/29/2023
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	54.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	67.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	53.5 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.10	pH Units	1	B3C2707	03/27/2023	03/28/2023
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SAR by 20B Saturated Paste

SAR	4.89	SAR	1	B3C2704	03/27/2023	03/29/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.45	0.00500	mmhos/cm	1	B3C2707	03/27/2023	03/28/2023
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

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 B3C2346 - EPA 5030 (soil)										
Blank (B3C2346-BLK1)					Prepared: 03/23/2023 Analyzed: 03/28/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.1	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

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 B3C2346 - EPA 5030 (soil)										
LCS (B3C2346-BS1)					Prepared: 03/23/2023 Analyzed: 03/28/2023					
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Benzene	0.0955	0.00200	"	0.100		95.5	70-130			
Ethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Naphthalene	0.105	0.00380	"	0.100		105	70-130			
Toluene	0.0864	0.00200	"	0.100		86.4	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.213	0.00400	"	0.200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		112	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

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 B3C2346 - EPA 5030 (soil)										
Matrix Spike (B3C2346-MS1)		Source: Y303609-01			Prepared: 03/23/2023 Analyzed: 03/28/2023					
1,2,4-Trimethylbenzene	0.0953	0.00200	mg/kg	0.100	0.000920	94.4	70-130			
1,3,5-Trimethylbenzene	0.0905	0.00200	"	0.100	ND	90.5	70-130			
Benzene	0.0948	0.00200	"	0.100	ND	94.8	70-130			
Ethylbenzene	0.0852	0.00200	"	0.100	0.000980	84.2	70-130			
Naphthalene	0.107	0.00380	"	0.100	0.00178	106	70-130			
Toluene	0.0943	0.00200	"	0.100	ND	94.3	70-130			
o-Xylene	0.0871	0.00200	"	0.100	ND	87.1	70-130			
m,p-Xylene	0.171	0.00400	"	0.200	0.00146	84.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

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 B3C2346 - EPA 5030 (soil)										
Matrix Spike Dup (B3C2346-MSD1)			Source: Y303609-01		Prepared: 03/23/2023 Analyzed: 03/28/2023					
1,2,4-Trimethylbenzene	0.0928	0.00200	mg/kg	0.100	0.000920	91.9	70-130	2.66	20	
1,3,5-Trimethylbenzene	0.0905	0.00200	"	0.100	ND	90.5	70-130	0.0884	20	
Benzene	0.0961	0.00200	"	0.100	ND	96.1	70-130	1.38	20	
Ethylbenzene	0.0864	0.00200	"	0.100	0.000980	85.4	70-130	1.47	20	
Naphthalene	0.0991	0.00380	"	0.100	0.00178	97.3	70-130	8.06	20	
Toluene	0.0880	0.00200	"	0.100	ND	88.0	70-130	6.89	20	
o-Xylene	0.0875	0.00200	"	0.100	ND	87.5	70-130	0.435	20	
m,p-Xylene	0.172	0.00400	"	0.200	0.00146	85.1	70-130	0.408	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

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 B3C2422 - EPA 3580										
Blank (B3C2422-BLK1)					Prepared: 03/24/2023 Analyzed: 03/28/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	18		"	24.9		72.1	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

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 B3C2422 - EPA 3580										
LCS (B3C2422-BS1)					Prepared: 03/24/2023 Analyzed: 03/28/2023					
Diesel (C10-C28)	844	50.0	mg/kg	1000		84.4	70-130			
Residual Range Organics (C28-C40)	870	200	"	1000		87.0	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.6	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

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 B3C2422 - EPA 3580										
Matrix Spike (B3C2422-MS1)		Source: Y303609-01			Prepared: 03/24/2023 Analyzed: 03/28/2023					
Diesel (C10-C28)	882	50.0	mg/kg	1000	ND	88.2	70-130			
Residual Range Organics (C28-C40)	919	200	"	1000	ND	91.9	70-130			
Surrogate: o-Terphenyl	44		"	49.8		87.6	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

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 B3C2422 - EPA 3580

Matrix Spike Dup (B3C2422-MSD1)		Source: Y303609-01			Prepared: 03/24/2023 Analyzed: 03/28/2023					
Diesel (C10-C28)	875	50.0	mg/kg	1000	ND	87.5	70-130	0.839	35	
Residual Range Organics (C28-C40)	908	200	"	1000	ND	90.8	70-130	1.20	35	
Surrogate: o-Terphenyl	42		"	49.8		85.3	50-150			

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

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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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 B3C2704 - Saturated Paste Metals

Blank (B3C2704-BLK1)

Prepared: 03/27/2023 Analyzed: 03/29/2023

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

Duplicate (B3C2704-DUP1)

Source: Y303606-16

Prepared: 03/27/2023 Analyzed: 03/29/2023

Calcium PPM	33.8	10.0	mg/L	26.3	25.0	50
SAR	0.00		SAR	29.1	200	200
Magnesium PPM	12.7	10.0	mg/L	9.93	24.8	50
Sodium PPM	824	10.0	"	689	17.8	50

Batch B3C2710 - DTPA Sorbitol Preparation

Blank (B3C2710-BLK1)

Prepared: 03/27/2023 Analyzed: 03/28/2023

Boron	ND	0.100	mg/L
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Duplicate (B3C2710-DUP1)

Source: Y303606-16

Prepared: 03/27/2023 Analyzed: 03/28/2023

Boron	1.86	0.0993	mg/L	2.14	14.0	50
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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3C2707 - Saturated Paste pH/EC										
Blank (B3C2707-BLK1)					Prepared: 03/27/2023 Analyzed: 03/28/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3C2707-DUP1)					Source: Y303606-16 Prepared: 03/27/2023 Analyzed: 03/28/2023					
pH	8.28		pH Units		8.20			0.971	25	
Specific Conductance (EC)	3.02	0.00500	mmhos/cm		3.01			0.292	25	

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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L672666 - 3550B

MSD (L 88214-MSD-L672666)		Source: 88214			Prepared: 03/28/2023 Analyzed: 03/29/2023					
2-Methylnaphthalene	0.113	0.00201	mg/Kg	0.164	0.00734	64.4	30-130	5.1	30	
Fluorene	0.121	0.00067	"	0.164	0.00647	69.8	30-130	1.6	30	
Pyrene	0.133	0.00067	"	0.164	0.00135	80.2	30-130	6.2	30	
Indeno(1,2,3-cd)pyrene	0.122	0.00067	"	0.164	<0.000627	74.3	30-130	7.6	30	
Fluoranthene	0.135	0.00067	"	0.164	<0.000394	82.3	30-130	5.3	30	
Dibenz(a,h)anthracene	0.13	0.00067	"	0.164	<0.000614	79.2	30-130	0.7	30	
Chrysene	0.133	0.00067	"	0.164	0.0023	79.6	30-130	11.9	30	
Naphthalene	0.1	0.00201	"	0.164	<0.00145	60.9	30-130	4.8	30	
1-Methylnaphthalene	0.111	0.00201	"	0.164	0.00527	64.4	30-130	4.4	30	
Benzo(k)fluoranthene	0.147	0.00067	"	0.164	<0.000437	89.6	30-130	10.7	30	
Acenaphthene	0.108	0.00067	"	0.164	0.00162	64.8	30-130	0.9	30	
Anthracene	0.124	0.00067	"	0.164	<0.000334	75.6	30-130	5.8	30	
Benzo(a)anthracene	0.125	0.00067	"	0.164	0.00154	75.2	30-130	4.9	30	
Benzo(a)pyrene	0.128	0.00067	"	0.164	0.000647	77.6	30-130	11.5	30	
Benzo(b)fluoranthene	0.104	0.00067	"	0.164	<0.000585	63.4	30-130	0	30	
Surrogate: 2-Fluorobiphenyl	61.7		"	0.329	173	61.7	33-115			
Surrogate: Nitrobenzene-d5	61		"	0.329	166	61	29-110			
Surrogate: 4-Terphenyl-d14	73.8		"	0.329	201	73.8	33-122			

MS (L 88214-MS-L672666)		Source: 88214			Prepared: 03/28/2023 Analyzed: 03/29/2023					
Benzo(k)fluoranthene	0.132	0.00067	mg/Kg	0.167	<0.000437	79	30-130			
Acenaphthene	0.109	0.00067	"	0.167	0.00162	64.2	30-130			
Naphthalene	0.105	0.00201	"	0.167	<0.00145	62.8	30-130			
Indeno(1,2,3-cd)pyrene	0.113	0.00067	"	0.167	<0.000627	67.6	30-130			
Fluorene	0.119	0.00067	"	0.167	0.00647	67.3	30-130			
Fluoranthene	0.128	0.00067	"	0.167	<0.000394	76.6	30-130			
Dibenz(a,h)anthracene	0.129	0.00067	"	0.167	<0.000614	77.2	30-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L672666 - 3550B

MS (L 88214-MS-L672666)		Source: 88214			Prepared: 03/28/2023 Analyzed: 03/29/2023					
Chrysene	0.118	0.00067	mg/Kg	0.167	0.0023	69.2	30-130			
1-Methylnaphthalene	0.116	0.00201	"	0.167	0.00527	66.3	30-130			
Benzo(a)pyrene	0.114	0.00067	"	0.167	0.000647	67.8	30-130			
Anthracene	0.117	0.00067	"	0.167	<0.000334	70	30-130			
Pyrene	0.125	0.00067	"	0.167	0.00135	74	30-130			
2-Methylnaphthalene	0.119	0.00201	"	0.167	0.00734	66.8	30-130			
Benzo(b)fluoranthene	0.104	0.00067	"	0.167	<0.000585	62.2	30-130			
Benzo(a)anthracene	0.119	0.00067	"	0.167	0.00154	70.3	30-130			
Surrogate: Nitrobenzene-d5	56.1		"	0.333	166	56.1	29-110			
Surrogate: 4-Terphenyl-d14	68.7		"	0.333	201	68.7	33-122			
Surrogate: 2-Fluorobiphenyl	58.2		"	0.333	173	58.2	33-115			

LCS (LCS-L672666)		Prepared: 03/28/2023 Analyzed: 03/29/2023								
Chrysene	0.12	0.00067	mg/Kg	0.167		71.8	30-130			
Dibenz(a,h)anthracene	0.153	0.00067	"	0.167		91.6	30-130			
Fluoranthene	0.13	0.00067	"	0.167		77.8	30-130			
Fluorene	0.129	0.00067	"	0.167		77.2	30-130			
Indeno(1,2,3-cd)pyrene	0.141	0.00067	"	0.167		84.4	30-130			
Naphthalene	0.111	0.00201	"	0.167		66.4	30-130			
Benzo(k)fluoranthene	0.15	0.00067	"	0.167		89.8	30-130			
Pyrene	0.132	0.00067	"	0.167		79	30-130			
Benzo(a)pyrene	0.128	0.00067	"	0.167		76.6	30-130			
Benzo(a)anthracene	0.123	0.00067	"	0.167		73.6	30-130			
Anthracene	0.131	0.00067	"	0.167		78.4	30-130			
Acenaphthene	0.116	0.00067	"	0.167		69.4	30-130			
2-Methylnaphthalene	0.118	0.00201	"	0.167		70.6	30-130			
1-Methylnaphthalene	0.118	0.00201	"	0.167		70.6	30-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L672666 - 3550B										
LCS (LCS-L672666)					Prepared: 03/28/2023 Analyzed: 03/29/2023					
Benzo(b)fluoranthene	0.117	0.00067	mg/Kg	0.167		70	30-130			
Surrogate: Nitrobenzene-d5	57		"	0.333		57	29-110			
Surrogate: 4-Terphenyl-d14	70.5		"	0.333		70.5	33-122			
Surrogate: 2-Fluorobiphenyl	60.6		"	0.333		60.6	33-115			
LRB (LRB-L672666)					Prepared: 03/28/2023 Analyzed: 03/29/2023					
Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	56.7		"	0.333		56.7	29-110			
Surrogate: 4-Terphenyl-d14	73.8		"	0.333		73.8	33-122			
Surrogate: 2-Fluorobiphenyl	61.5		"	0.333		61.5	33-115			

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

Martin C Eckert III
Project Number: [none]
Project: Noble - FHA #2-1

Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

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