



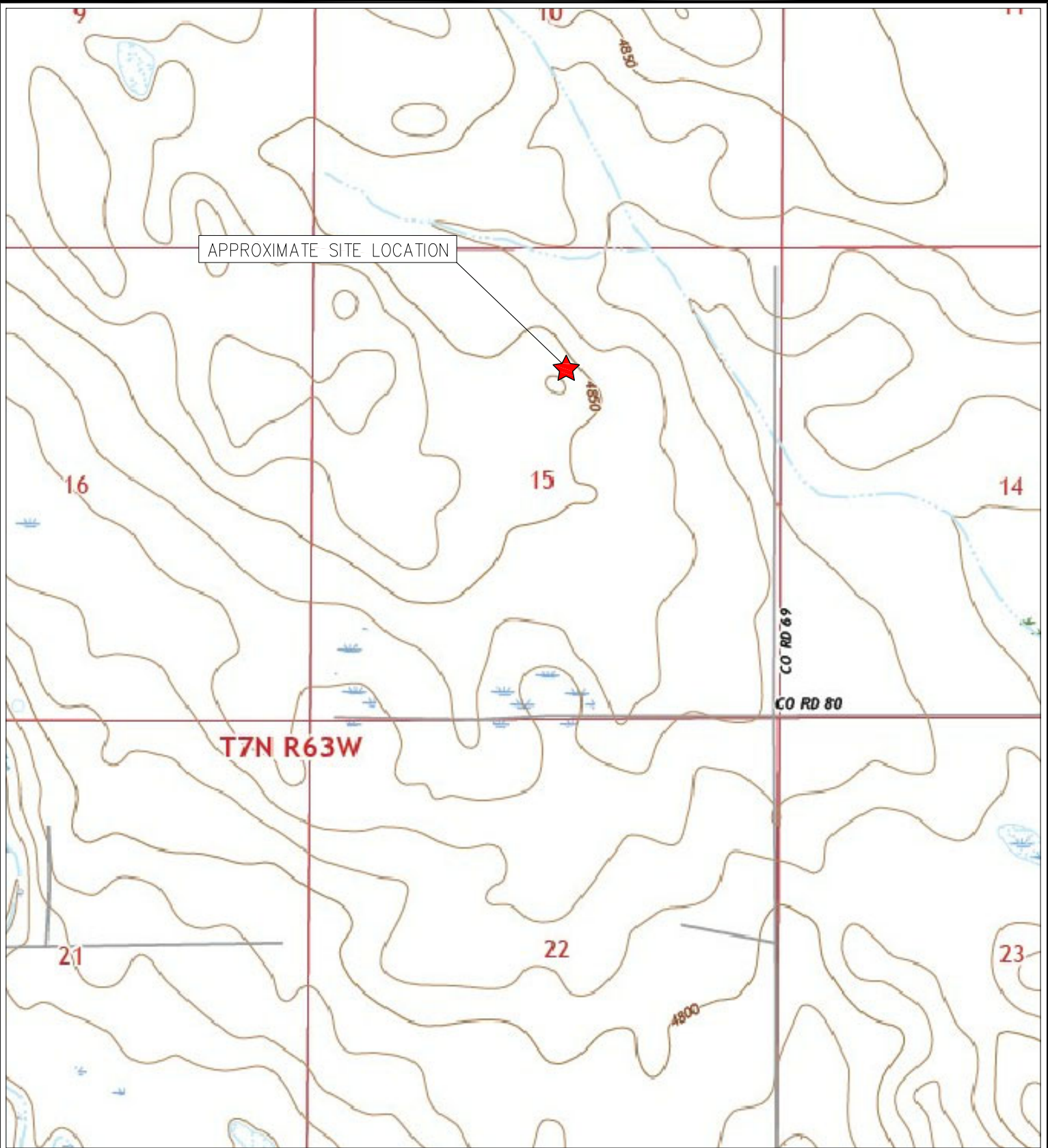
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Polycyclic Aromatic Hydrocarbons Analytical Map



TOPOGRAPHIC SITE LOCATION MAP
 BALL RANCH #AC15-04
 CLOSURE ASSESSMENT
 40.579570 / -104.429550
 NW¼ NW¼ SEC.15 T7N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-34890
 REMEDIATION # 26839



EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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

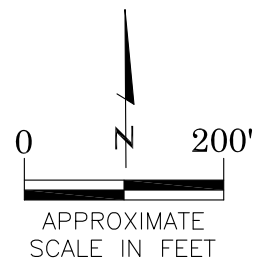
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,
 CORNISH, CO QUADRANGLE 2022

FIGURE 1



LEGEND

- FORMER BALL RANCH #AC15-04 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



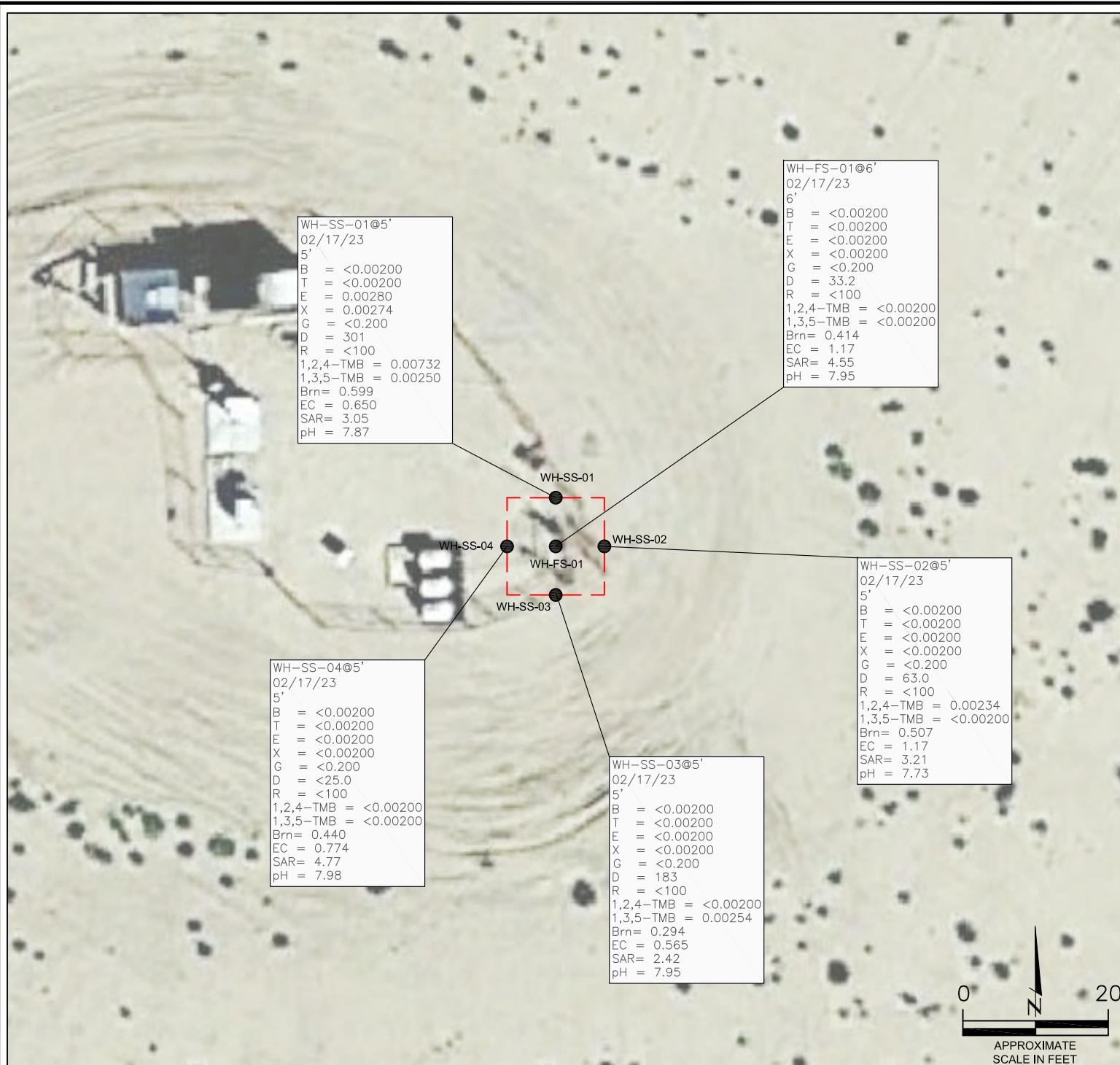
AERIAL SITE LOCATION MAP
 BALL RANCH #AC15-04
 CLOSURE ASSESSMENT
 40.579570 / -104.429550
 NW¼ NW¼ SEC.15 T7N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-34890
 REMEDIATION # 26839

DRAWN BY:
 EL

FIGURE NO.
 2



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LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES
SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

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

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

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

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

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

COGCC = COLORADO OIL AND GAS CONSERVATION
COMMISSION

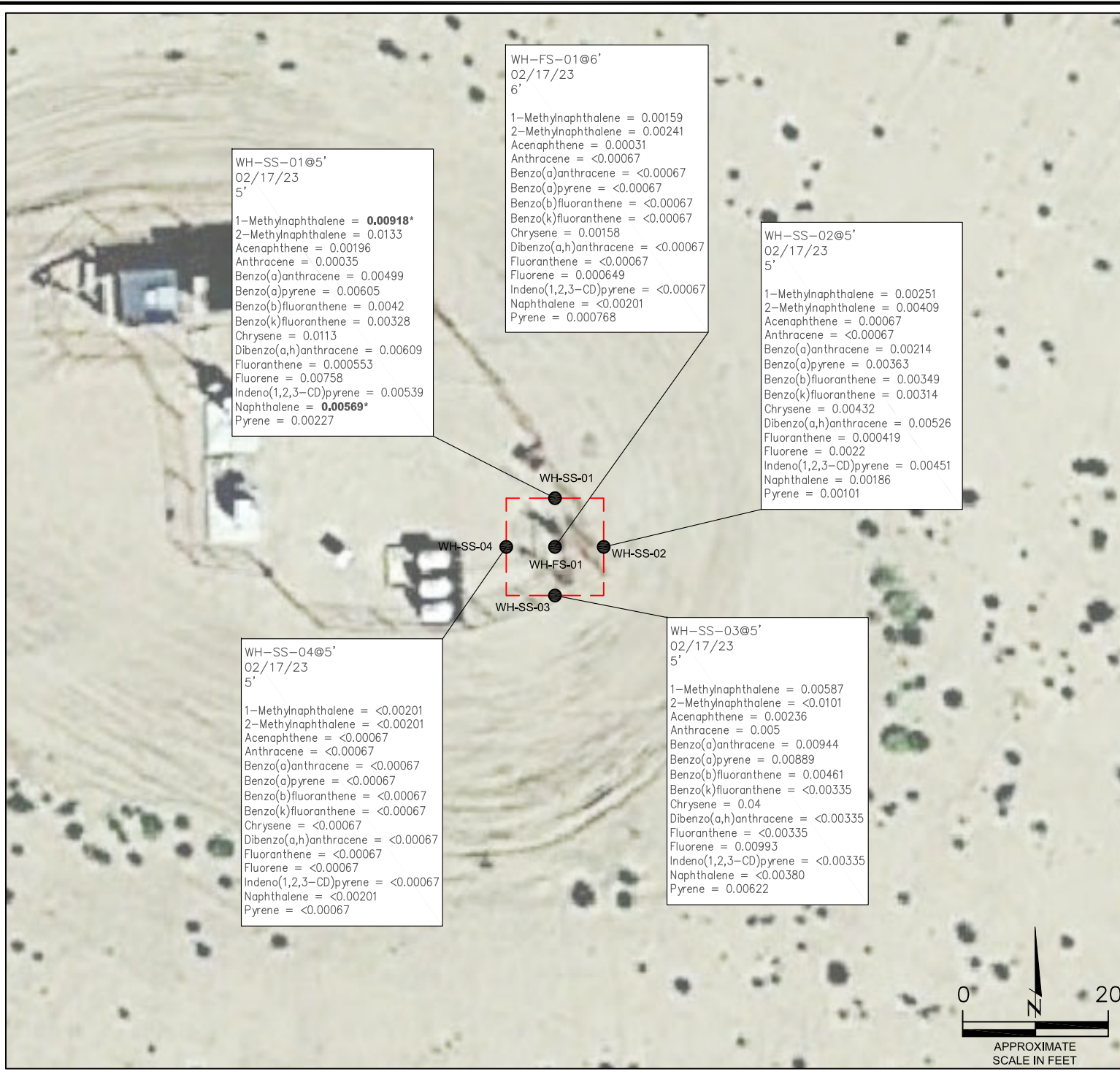
SOIL ANALYTICAL MAP
BALL RANCH #AC15-04
CLOSURE ASSESSMENT
40.579570 / -104.429550
NW¼ NW¼ SEC.15 T7N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-34890
REMEDIATION # 26839

FIGURE NO.
3

DRAWN BY:
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8000 W 44th Ave, Wheat Ridge, CO 80033
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LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- SS-02 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** EXCEED COGCC TABLE 915-1
REGULATORY LIMITS.

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

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP

BALL RANCH #AC15-04
CLOSURE ASSESSMENT
40.579570 / -104.429550
NW¼ WW¼ SEC.15 T7N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-34890
REMEDATION # 26839

FIGURE NO.
4

DRAWN BY:
EL



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ENVIRONMENTAL
CONSULTING, LLC
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Ph: 303-433-0479 • F: 303-325-5449



ATTACHMENT A

Photolog

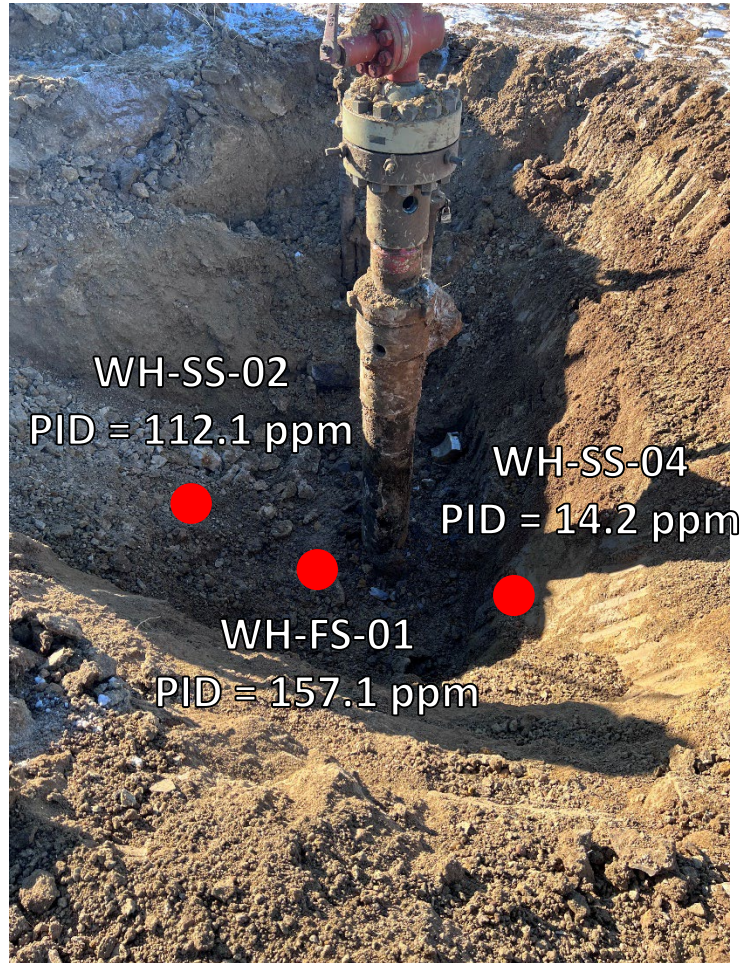
Ball Ranch #AC15-04
API # 05-123-34890
Remediation # 26839

Closure Assessment

February 2023

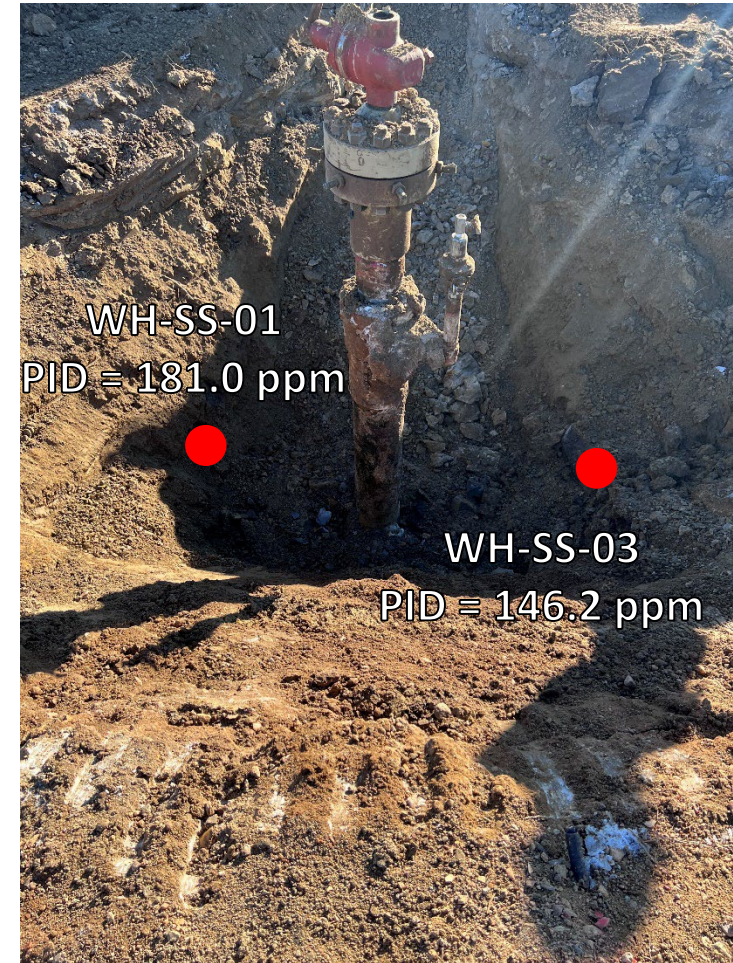


Wellhead Excavation – 02/17/23



Looking south

No petroleum hydrocarbon staining or odor observed



Looking east

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Report



February 24, 2023

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Ball Ranch #AC15-04

Project Number - [none]

Attached are your analytical results for Noble - Ball Ranch #AC15-04 received by Origins Laboratory, Inc. February 17, 2023. This project is associated with Origins project number Y302357-01.

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

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

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

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

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

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



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Ball Ranch #AC15-04

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-SS-01@5'	Y302357-01	Soil	February 17, 2023 8:45	02/17/2023 13:57
WH-SS-02@5'	Y302357-02	Soil	February 17, 2023 8:47	02/17/2023 13:57
WH-SS-03@5'	Y302357-03	Soil	February 17, 2023 8:49	02/17/2023 13:57
WH-SS-04@5'	Y302357-04	Soil	February 17, 2023 8:51	02/17/2023 13:57
WH-FS-01@6'	Y302357-05	Soil	February 17, 2023 8:53	02/17/2023 13:57

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: [none]
Project: Noble - Ball Ranch #AC15-04

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4302357

Client: Eagle

Client Project ID: Ball Ranch #AC15-04

Checklist Completed by: EKS

Shipped Via: HD

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

Date/time completed: 2/17/23

Airbill #: NA

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

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

Thermometer ID: T004

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

2/17/23
Date/Time Reviewed

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: [none]
Project: Noble - Ball Ranch #AC15-04

WH-SS-01@5'
2/17/2023 8:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y302357-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.599	0.0994	mg/L	1	B3B2006	02/20/2023	02/21/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	301	25.0	mg/kg	1	B3B2002	02/20/2023	02/21/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.0 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00732	0.00200	mg/kg	1	B3B2126	02/21/2023	02/22/2023	
1,3,5-Trimethylbenzene	0.00250	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	0.00280	0.00200	"	"	"	"	"	
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	0.00274	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	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.

Jen Pellegrini, Project Manager

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Ball Ranch #AC15-04

WH-SS-01@5'

2/17/2023 8:45:00AM

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

Origins Laboratory, Inc.
Y302357-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.8 %	70-130	B3B21 26	02/21/2023	02/22/2023
Surrogate: 4-Bromofluorobenzene	95.0 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.18	0.499	meq/L	10	[CALC]	02/21/2023	02/22/2023
Magnesium	1.28	0.823	"	"	"	"	"
Sodium	4.01	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.00918	0.00109	0.00201	mg/Kg	1	L665507	02/22/2023	02/22/2023
2-Methylnaphthalene	0.0133	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.00196	0.000304	0.00067	"	"	"	"	"
Anthracene	0.00035	0.000334	0.00067	"	"	"	"	J
Benzo(a)anthracene	0.00499	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.00605	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.0042	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.00328	0.000437	0.00067	"	"	"	"	"
Chrysene	0.0113	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	0.00609	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.000553	0.000394	0.00067	"	"	"	"	J
Fluorene	0.00758	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	0.00539	0.000627	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: [none]
Project: Noble - Ball Ranch #AC15-04

WH-SS-01@5'

2/17/2023 8:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y302357-01 (Soil)

PAH by 8270D SIM

Naphthalene	0.00569	0.00145	0.00201	mg/Kg	1	L665507	02/22/2023	02/22/2023	
Pyrene	0.00227	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	46.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	49.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	49.1 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.87			pH Units	1	B3B2110	02/21/2023	02/22/2023	
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SAR by 20B Saturated Paste

SAR	3.05			SAR	1	B3B2104	02/21/2023	02/22/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.650		0.00500	mmhos/cm	1	B3B2110	02/21/2023	02/22/2023	
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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: [none]
Project: Noble - Ball Ranch #AC15-04

WH-SS-02@5'
2/17/2023 8:47:00AM

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

Origins Laboratory, Inc.
Y302357-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.507	0.0991	mg/L	1	B3B2006	02/20/2023	02/21/2023
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	63.0	25.0	mg/kg	1	B3B2002	02/20/2023	02/21/2023
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	" U

Surrogate: o-Terphenyl	85.7 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00234	0.00200	mg/kg	1	B3B2126	02/21/2023	02/22/2023
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	U

Origins Laboratory, Inc.



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: [none]
Project: Noble - Ball Ranch #AC15-04

WH-SS-02@5'

2/17/2023 8:47:00AM

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

Origins Laboratory, Inc. Y302357-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	100 %		70-130			B3B21 26	02/21/2023	02/22/2023	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.19		0.499	meq/L	10	[CALC]	02/21/2023	02/22/2023	
Magnesium	2.43		0.823	"	"	"	"	"	
Sodium	5.83		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00251	0.00109	0.00201	mg/Kg	1	L665507	02/22/2023	02/22/2023	
2-Methylnaphthalene	0.00409	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.00067	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00214	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00363	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00349	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00314	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00432	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.00526	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000419	0.000394	0.00067	"	"	"	"	"	J
Fluorene	0.0022	0.000286	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: [none]
Project: Noble - Ball Ranch #AC15-04

WH-SS-02@5'

2/17/2023 8:47:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y302357-02 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.00451	0.000627	0.00067	mg/Kg	1	L665507	02/22/2023	02/22/2023	
Naphthalene	0.00186	0.00145	0.00201	"	"	"	"	"	J
Pyrene	0.00101	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	39.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	52.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	44.1 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.73	pH Units	1	B3B2110	02/21/2023	02/22/2023
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SAR by 20B Saturated Paste

SAR	3.21	SAR	1	B3B2104	02/21/2023	02/22/2023
-----	------	-----	---	---------	------------	------------

Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.17	0.00500 mmhos/cm	1	B3B2110	02/21/2023	02/22/2023
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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: [none]
Project: Noble - Ball Ranch #AC15-04

WH-SS-03@5'
2/17/2023 8:49:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y302357-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.294	0.0986	mg/L	1	B3B2006	02/20/2023	02/21/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	183	25.0	mg/kg	1	B3B2002	02/20/2023	02/21/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.0 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B2126	02/21/2023	02/22/2023	U
1,3,5-Trimethylbenzene	0.00254	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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: [none]
Project: Noble - Ball Ranch #AC15-04

WH-SS-03@5'

2/17/2023 8:49:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y302357-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	B3B21 26	02/21/2023	02/22/2023
Surrogate: Toluene-d8	97.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.1 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	2.16	0.499	meq/L	10	[CALC]	02/21/2023	02/22/2023
Magnesium	1.30	0.823	"	"	"	"	"
Sodium	3.19	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.00587	0.00549	0.0101	mg/Kg	5	L665507	02/22/2023	02/22/2023	J
2-Methylnaphthalene	ND	0.00972	0.0101	"	"	"	"	"	
Acenaphthene	0.00236	0.00152	0.00335	"	"	"	"	"	J
Anthracene	0.005	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	0.00944	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	0.00889	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	0.00461	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	0.04	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	

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: [none]
Project: Noble - Ball Ranch #AC15-04

WH-SS-03@5'

2/17/2023 8:49:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y302357-03 (Soil)

PAH by 8270D SIM

Fluorene	0.00993	0.00143	0.00335	mg/Kg	5	L665507	02/22/2023	02/22/2023
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"
Naphthalene	ND	0.0073	0.0101	"	"	"	"	"
Pyrene	0.00622	0.00322	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	48.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	39.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	56.7 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.95	pH Units	1	B3B2111	02/21/2023	02/22/2023
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SAR by 20B Saturated Paste

SAR	2.42	SAR	1	B3B2105	02/21/2023	02/22/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.565	0.00500	mmhos/cm	1	B3B2111	02/21/2023	02/22/2023
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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: [none]
Project: Noble - Ball Ranch #AC15-04

WH-SS-04@5'
2/17/2023 8:51:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y302357-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.440	0.0989	mg/L	1	B3B2006	02/20/2023	02/21/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B2002	02/20/2023	02/21/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.6 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B2126	02/21/2023	02/22/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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: [none]
Project: Noble - Ball Ranch #AC15-04

WH-SS-04@5'

2/17/2023 8:51:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y302357-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			B3B21 26	02/21/2023	02/22/2023	
Surrogate: Toluene-d8	101 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	87.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.97		0.499	meq/L	10	[CALC]	02/21/2023	02/22/2023	
Magnesium	1.16		0.823	"	"	"	"	"	
Sodium	5.97		0.435	"	"	"	"	"	

PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L665703	02/23/2023	02/23/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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: [none]
Project: Noble - Ball Ranch #AC15-04

WH-SS-04@5'

2/17/2023 8:51:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC. Y302357-04 (Soil)

PAH by 8270D-SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L665703	02/23/2023	02/23/2023
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
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	38.8 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	56.4 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	44.2 %		29-110			"	"	"

pH in Soil by 9045D

pH	7.98			pH Units	1	B3B2111	02/21/2023	02/22/2023
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SAR by 20B Saturated Paste

SAR	4.77			SAR	1	B3B2105	02/21/2023	02/22/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.774		0.00500	mmhos/cm	1	B3B2111	02/21/2023	02/22/2023
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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: [none]
Project: Noble - Ball Ranch #AC15-04

WH-FS-01@6'
2/17/2023 8:53:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y302357-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.414	0.0998	mg/L	1	B3B2006	02/20/2023	02/21/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	33.2	25.0	mg/kg	1	B3B2002	02/20/2023	02/21/2023	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.8 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B2126	02/21/2023	02/22/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Ball Ranch #AC15-04

WH-FS-01@6'

2/17/2023 8:53:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y302357-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	B3B21 26	02/21/2023	02/22/2023
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	86.8 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	3.70	0.499	meq/L	10	[CALC]	02/21/2023	02/22/2023
Magnesium	1.43	0.823	"	"	"	"	"
Sodium	7.29	0.435	"	"	"	"	"

PAH by 8270D-SIM

1-Methylnaphthalene	0.00159	0.00109	0.00201	mg/Kg	1	L665703	02/23/2023	02/23/2023	J
2-Methylnaphthalene	0.00241	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.00031	0.000304	0.00067	"	"	"	"	"	J
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	0.00158	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	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: [none]
Project: Noble - Ball Ranch #AC15-04

WH-FS-01@6'

2/17/2023 8:53:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y302357-05 (Soil)

PAH by 8270D-SIM

Fluorene	0.000649	0.000286	0.00067	mg/Kg	1	L665703	02/23/2023	02/23/2023	J
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.000768	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	38.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	53 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	43 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.95	pH Units	1	B3B2111	02/21/2023	02/22/2023
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SAR by 20B Saturated Paste

SAR	4.55	SAR	1	B3B2105	02/21/2023	02/22/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.17	0.00500	mmhos/cm	1	B3B2111	02/21/2023	02/22/2023
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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: [none]
Project: Noble - Ball Ranch #AC15-04

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B2002 - EPA 3580										
Blank (B3B2002-BLK1)					Prepared: 02/20/2023 Analyzed: 02/20/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		103	50-150			

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: [none]
Project: Noble - Ball Ranch #AC15-04

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3B2002 - EPA 3580

LCS (B3B2002-BS1)

Prepared: 02/20/2023 Analyzed: 02/20/2023

Diesel (C10-C28)	1120	50.0	mg/kg	1000		112	70-130			
Residual Range Organics (C28-C40)	1170	200	"	1000		117	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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: [none]
Project: Noble - Ball Ranch #AC15-04

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3B2002 - EPA 3580

Matrix Spike (B3B2002-MS1)		Source: Y302356-01			Prepared: 02/20/2023 Analyzed: 02/21/2023					
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.0	50-150			

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: [none]
Project: Noble - Ball Ranch #AC15-04

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3B2002 - EPA 3580

Matrix Spike Dup (B3B2002-MSD1)		Source: Y302356-01			Prepared: 02/20/2023 Analyzed: 02/21/2023					
Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	70-130	3.40	35	
Residual Range Organics (C28-C40)	1100	200	"	1000	ND	110	70-130	5.84	35	
Surrogate: o-Terphenyl	47		"	49.8		95.2	50-150			

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: [none]
Project: Noble - Ball Ranch #AC15-04

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B2126 - EPA 5030 (soil)										
Blank (B3B2126-BLK1)					Prepared: 02/21/2023 Analyzed: 02/22/2023					
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	0.12		"	0.125		99.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.9	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: [none]
Project: Noble - Ball Ranch #AC15-04

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3B2126 - EPA 5030 (soil)

LCS (B3B2126-BS1)

Prepared: 02/21/2023 Analyzed: 02/22/2023

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	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.0984	0.00200	"	0.100		98.4	70-130			
Naphthalene	0.0960	0.00380	"	0.100		96.0	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.203	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	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: [none]
Project: Noble - Ball Ranch #AC15-04

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B2126 - EPA 5030 (soil)										
Matrix Spike (B3B2126-MS1)		Source: Y302357-01			Prepared: 02/21/2023 Analyzed: 02/22/2023					
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	0.00732	94.6	70-130			
1,3,5-Trimethylbenzene	0.0990	0.00200	"	0.100	0.00250	96.5	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.0944	0.00200	"	0.100	0.00280	91.6	70-130			
Naphthalene	0.0973	0.00380	"	0.100	0.00304	94.3	70-130			
Toluene	0.0955	0.00200	"	0.100	0.00158	93.9	70-130			
o-Xylene	0.101	0.00200	"	0.100	0.00274	98.2	70-130			
m,p-Xylene	0.195	0.00400	"	0.200	0.00384	95.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Martin C Eckert III
Project Number: [none]
Project: Noble - Ball Ranch #AC15-04

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B2126 - EPA 5030 (soil)										
Matrix Spike Dup (B3B2126-MSD1)			Source: Y302357-01		Prepared: 02/21/2023 Analyzed: 02/22/2023					
1,2,4-Trimethylbenzene	0.0936	0.00200	mg/kg	0.100	0.00732	86.3	70-130	8.47	20	
1,3,5-Trimethylbenzene	0.0928	0.00200	"	0.100	0.00250	90.3	70-130	6.47	20	
Benzene	0.104	0.00200	"	0.100	ND	104	70-130	2.52	20	
Ethylbenzene	0.0880	0.00200	"	0.100	0.00280	85.2	70-130	6.93	20	
Naphthalene	0.0993	0.00380	"	0.100	0.00304	96.2	70-130	1.99	20	
Toluene	0.0951	0.00200	"	0.100	0.00158	93.6	70-130	0.378	20	
o-Xylene	0.0964	0.00200	"	0.100	0.00274	93.6	70-130	4.62	20	
m,p-Xylene	0.184	0.00400	"	0.200	0.00384	90.3	70-130	5.51	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	70-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Ball Ranch #AC15-04

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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 B3B2006 - DTPA Sorbitol Preparation

Blank (B3B2006-BLK1)

Prepared: 02/20/2023 Analyzed: 02/21/2023

Boron	ND	0.100	mg/L							U
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Duplicate (B3B2006-DUP1)

Source: Y302347-06

Prepared: 02/20/2023 Analyzed: 02/21/2023

Boron	ND	0.0996	mg/L		ND			50		U
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Batch B3B2104 - Saturated Paste Metals

Blank (B3B2104-BLK1)

Prepared: 02/21/2023 Analyzed: 02/22/2023

SAR	0.00		SAR							U
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Calcium PPM	ND	10.0	mg/L							U
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Magnesium PPM	ND	10.0	"							U
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Sodium PPM	ND	10.0	"							U
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Duplicate (B3B2104-DUP1)

Source: Y302357-01

Prepared: 02/21/2023 Analyzed: 02/22/2023

SAR	0.00		SAR	3.05			200	200		U
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Calcium PPM	45.6	10.0	mg/L	43.7			4.23	50		
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Magnesium PPM	15.7	10.0	"	15.5			1.14	50		
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Sodium PPM	89.1	10.0	"	92.2			3.42	50		
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Batch B3B2105 - Saturated Paste Metals

Blank (B3B2105-BLK1)

Prepared: 02/21/2023 Analyzed: 02/22/2023

SAR	0.00		SAR							U
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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: [none]
Project: Noble - Ball Ranch #AC15-04

Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3B2105 - Saturated Paste Metals										
Blank (B3B2105-BLK1)					Prepared: 02/21/2023 Analyzed: 02/22/2023					
Calcium PPM	ND	10.0	mg/L							U
Magnesium PPM	ND	10.0	"							U
Sodium PPM	ND	10.0	"							U
Duplicate (B3B2105-DUP1)					Source: Y302357-03		Prepared: 02/21/2023 Analyzed: 02/22/2023			
Calcium PPM	43.2	10.0	mg/L		43.4			0.286	50	
SAR	0.00		SAR		2.42			200	200	U
Magnesium PPM	16.1	10.0	mg/L		15.8			2.21	50	
Sodium PPM	67.4	10.0	"		73.3			8.47	50	

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Ball Ranch #AC15-04

Saturated Paste - 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 B3B2110 - Saturated Paste pH/EC

Blank (B3B2110-BLK1)

Prepared: 02/21/2023 Analyzed: 02/22/2023

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B3B2110-DUP1)

Source: Y302357-01

Prepared: 02/21/2023 Analyzed: 02/22/2023

Specific Conductance (EC)	0.661	0.00500	mmhos/cm		0.650			1.68	25	
pH	7.76		pH Units		7.87			1.41	25	

Batch B3B2111 - Saturated Paste pH/EC

Blank (B3B2111-BLK1)

Prepared: 02/21/2023 Analyzed: 02/22/2023

Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
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Duplicate (B3B2111-DUP1)

Source: Y302357-03

Prepared: 02/21/2023 Analyzed: 02/22/2023

pH	7.89		pH Units		7.95			0.758	25	
Specific Conductance (EC)	0.590	0.00500	mmhos/cm		0.565			4.33	25	

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Ball Ranch #AC15-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L665507 - 3550B

MSD (L 89413-MSD-L665507)		Source: 89413			Prepared: 02/22/2023 Analyzed: 02/22/2023					
Chrysene	0.0999	0.00067	mg/Kg	0.165	<0.000624	60.5	30-130	4.6	30	
Naphthalene	0.0881	0.00201	"	0.165	<0.00145	53.3	30-130	4.1	30	
Indeno(1,2,3-cd)pyrene	0.128	0.00067	"	0.165	<0.000627	77.5	30-130	6	30	
2-Methylnaphthalene	0.0896	0.00201	"	0.165	<0.00194	54.3	30-130	4.3	30	
Fluorene	0.0988	0.00067	"	0.165	<0.000286	59.8	30-130	1.2	30	
Fluoranthene	0.105	0.00067	"	0.165	<0.000394	63.6	30-130	2.8	30	
Dibenz(a,h)anthracene	0.141	0.00067	"	0.165	<0.000614	85.4	30-130	9.4	30	
Pyrene	0.105	0.00067	"	0.165	<0.000643	63.6	30-130	2.8	30	
Acenaphthene	0.0973	0.00067	"	0.165	<0.000304	58.9	30-130	2.9	30	
Benzo(k)fluoranthene	0.0907	0.00067	"	0.165	<0.000437	54.9	30-130	15	30	
1-Methylnaphthalene	0.093	0.00201	"	0.165	<0.00109	56.3	30-130	4.7	30	
Anthracene	0.102	0.00067	"	0.165	<0.000334	61.8	30-130	2.7	30	
Benzo(a)anthracene	0.101	0.00067	"	0.165	<0.000493	61.2	30-130	0	30	
Benzo(a)pyrene	0.109	0.00067	"	0.165	<0.000468	66	30-130	0	30	
Benzo(b)fluoranthene	0.0855	0.00067	"	0.165	<0.000585	51.8	30-130	0.1	30	
Surrogate: Nitrobenzene-d5	55.7		"	0.33	201	55.7	29-110			
Surrogate: 2-Fluorobiphenyl	50		"	0.33	169	50	33-115			
Surrogate: 4-Terphenyl-d14	65.4		"	0.33	221	65.4	33-122			

MS (L 89413-MS-L665507)		Source: 89413			Prepared: 02/22/2023 Analyzed: 02/22/2023					
Fluorene	0.0976	0.00067	mg/Kg	0.164	<0.000286	59.5	30-130			
Benzo(a)pyrene	0.109	0.00067	"	0.164	<0.000468	66.4	30-130			
Chrysene	0.0954	0.00067	"	0.164	<0.000624	58.1	30-130			
Benzo(k)fluoranthene	0.078	0.00067	"	0.164	<0.000437	47.5	30-130			
Benzo(b)fluoranthene	0.0854	0.00067	"	0.164	<0.000585	52	30-130			
Dibenz(a,h)anthracene	0.155	0.00067	"	0.164	<0.000614	94.5	30-130			
Benzo(a)anthracene	0.101	0.00067	"	0.164	<0.000493	61.5	30-130			

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: [none]
Project: Noble - Ball Ranch #AC15-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L665507 - 3550B

MS (L 89413-MS-L665507)		Source: 89413			Prepared: 02/22/2023 Analyzed: 02/22/2023					
Anthracene	0.0992	0.00067	mg/Kg	0.164	<0.000334	60.4	30-130			
Acenaphthene	0.0945	0.00067	"	0.164	<0.000304	57.6	30-130			
2-Methylnaphthalene	0.0858	0.00201	"	0.164	<0.00194	52.3	30-130			
1-Methylnaphthalene	0.0887	0.00201	"	0.164	<0.00109	54	30-130			
Indeno(1,2,3-cd)pyrene	0.136	0.00067	"	0.164	<0.000627	82.9	30-130			
Naphthalene	0.0845	0.00201	"	0.164	<0.00145	51.5	30-130			
Pyrene	0.102	0.00067	"	0.164	<0.000643	62.1	30-130			
Fluoranthene	0.102	0.00067	"	0.164	<0.000394	62.1	30-130			
Surrogate: 2-Fluorobiphenyl	48.9		"	0.329	169	48.9	33-115			
Surrogate: 4-Terphenyl-d14	64.7		"	0.329	221	64.7	33-122			
Surrogate: Nitrobenzene-d5	55.6		"	0.329	201	55.6	29-110			

LCS (LCS-L665507)		Prepared: 02/22/2023 Analyzed: 02/22/2023								
Dibenz(a,h)anthracene	0.142	0.00067	mg/Kg	0.167		85	30-130			
2-Methylnaphthalene	0.0923	0.00201	"	0.167		55.2	30-130			
Acenaphthene	0.0979	0.00067	"	0.167		58.6	30-130			
Anthracene	0.107	0.00067	"	0.167		64	30-130			
Benzo(a)anthracene	0.107	0.00067	"	0.167		64	30-130			
Benzo(a)pyrene	0.113	0.00067	"	0.167		67.6	30-130			
Benzo(b)fluoranthene	0.0905	0.00067	"	0.167		54.1	30-130			
1-Methylnaphthalene	0.0954	0.00201	"	0.167		57.1	30-130			
Chrysene	0.104	0.00067	"	0.167		62.2	30-130			
Naphthalene	0.0915	0.00201	"	0.167		54.7	30-130			
Fluoranthene	0.11	0.00067	"	0.167		65.8	30-130			
Fluorene	0.102	0.00067	"	0.167		61	30-130			
Indeno(1,2,3-cd)pyrene	0.124	0.00067	"	0.167		74.2	30-130			
Benzo(k)fluoranthene	0.0883	0.00067	"	0.167		52.8	30-130			

Origins Laboratory, Inc.



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Martin C Eckert III
Project Number: [none]
Project: Noble - Ball Ranch #AC15-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L665507 - 3550B										
LCS (LCS-L665507)					Prepared: 02/22/2023 Analyzed: 02/22/2023					
Pyrene	0.11	0.00067	mg/Kg	0.167		65.8	30-130			
Surrogate: 2-Fluorobiphenyl	55.5		"	0.333		55.5	33-115			
Surrogate: 4-Terphenyl-d14	75.3		"	0.333		75.3	33-122			
Surrogate: Nitrobenzene-d5	64.5		"	0.333		64.5	29-110			
LRB (LRB-L665507)					Prepared: 02/22/2023 Analyzed: 02/22/2023					
Dibenz(a,h)anthracene	ND	0.00067	mg/Kg				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Surrogate: Nitrobenzene-d5	59.7		"	0.333		59.7	29-110			
Surrogate: 4-Terphenyl-d14	72.9		"	0.333		72.9	33-122			
Surrogate: 2-Fluorobiphenyl	53.7		"	0.333		53.7	33-115			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Ball Ranch #AC15-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L665703 - 3550B

MSD (L 89632-MSD-L665703)		Source: 89632			Prepared: 02/23/2023 Analyzed: 02/23/2023					
Anthracene	0.103	0.00067	mg/Kg	0.166	<0.000334	62	30-130	1.9	30	
Acenaphthene	0.0933	0.00067	"	0.166	<0.000304	56.2	30-130	1.2	30	
2-Methylnaphthalene	0.0792	0.00201	"	0.166	<0.00194	47.7	30-130	5.5	30	
1-Methylnaphthalene	0.0832	0.00201	"	0.166	<0.00109	50.1	30-130	5.9	30	
Benzo(a)pyrene	0.111	0.00067	"	0.166	<0.000468	66.8	30-130	5.5	30	
Benzo(b)fluoranthene	0.104	0.00067	"	0.166	<0.000585	62.6	30-130	18.2	30	
Pyrene	0.105	0.00067	"	0.166	<0.000643	63.2	30-130	1.9	30	
Benzo(k)fluoranthene	0.0956	0.00067	"	0.166	<0.000437	57.5	30-130	8.8	30	
Chrysene	0.101	0.00067	"	0.166	<0.000624	60.8	30-130	3.8	30	
Dibenz(a,h)anthracene	0.144	0.00067	"	0.166	<0.000614	86.7	30-130	31.3	30	*
Fluoranthene	0.105	0.00067	"	0.166	<0.000394	63.2	30-130	2.8	30	
Fluorene	0.0985	0.00067	"	0.166	<0.000286	59.3	30-130	0.7	30	
Indeno(1,2,3-cd)pyrene	0.125	0.00067	"	0.166	<0.000627	75.3	30-130	35.9	30	*
Naphthalene	0.0765	0.00201	"	0.166	<0.00145	46	30-130	6.1	30	
Benzo(a)anthracene	0.107	0.00067	"	0.166	<0.000493	64.4	30-130	2.8	30	
Surrogate: 4-Terphenyl-d14	59.6		"	0.332	186	59.6	33-122			
Surrogate: 2-Fluorobiphenyl	44.5		"	0.332	144	44.5	33-115			
Surrogate: Nitrobenzene-d5	49.6		"	0.332	149	49.6	29-110			

MS (L 89632-MS-L665703)		Source: 89632			Prepared: 02/23/2023 Analyzed: 02/23/2023					
Benzo(a)anthracene	0.104	0.00067	mg/Kg	0.165	<0.000493	63	30-130			
Anthracene	0.101	0.00067	"	0.165	<0.000334	61.2	30-130			
Acenaphthene	0.0921	0.00067	"	0.165	<0.000304	55.8	30-130			
2-Methylnaphthalene	0.0749	0.00201	"	0.165	<0.00194	45.3	30-130			
Benzo(a)pyrene	0.105	0.00067	"	0.165	<0.000468	63.6	30-130			
1-Methylnaphthalene	0.0784	0.00201	"	0.165	<0.00109	47.5	30-130			
Fluorene	0.0978	0.00067	"	0.165	<0.000286	59.2	30-130			

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: [none]
Project: Noble - Ball Ranch #AC15-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L665703 - 3550B

MS (L 89632-MS-L665703)		Source: 89632			Prepared: 02/23/2023 Analyzed: 02/23/2023					
Benzo(b)fluoranthene	0.0866	0.00067	mg/Kg	0.165	<0.000585	52.4	30-130			
Benzo(k)fluoranthene	0.0875	0.00067	"	0.165	<0.000437	53	30-130			
Chrysene	0.105	0.00067	"	0.165	<0.000624	63.6	30-130			
Fluoranthene	0.102	0.00067	"	0.165	<0.000394	61.8	30-130			
Indeno(1,2,3-cd)pyrene	0.0869	0.00067	"	0.165	<0.000627	52.6	30-130			
Naphthalene	0.0719	0.00201	"	0.165	<0.00145	43.5	30-130			
Pyrene	0.103	0.00067	"	0.165	<0.000643	62.4	30-130			
Dibenz(a,h)anthracene	0.105	0.00067	"	0.165	<0.000614	63.6	30-130			
Surrogate: 4-Terphenyl-d14	57.8		"	0.33	186	57.8	33-122			
Surrogate: 2-Fluorobiphenyl	40.3		"	0.33	144	40.3	33-115			
Surrogate: Nitrobenzene-d5	44.8		"	0.33	149	44.8	29-110			

LCS (LCS-L665703)		Prepared: 02/23/2023 Analyzed: 02/23/2023								
Benzo(a)pyrene	0.118	0.00067	mg/Kg	0.167		70.6	30-130			
Benzo(k)fluoranthene	0.083	0.00067	"	0.167		49.7	30-130			
Pyrene	0.109	0.00067	"	0.167		65.2	30-130			
1-Methylnaphthalene	0.0863	0.00201	"	0.167		51.6	30-130			
2-Methylnaphthalene	0.0833	0.00201	"	0.167		49.8	30-130			
Acenaphthene	0.0959	0.00067	"	0.167		57.4	30-130			
Anthracene	0.107	0.00067	"	0.167		64	30-130			
Benzo(a)anthracene	0.116	0.00067	"	0.167		69.4	30-130			
Naphthalene	0.0824	0.00201	"	0.167		49.3	30-130			
Benzo(b)fluoranthene	0.0848	0.00067	"	0.167		50.7	30-130			
Indeno(1,2,3-cd)pyrene	0.0911	0.00067	"	0.167		54.5	30-130			
Fluorene	0.1	0.00067	"	0.167		59.8	30-130			
Fluoranthene	0.111	0.00067	"	0.167		66.4	30-130			
Dibenz(a,h)anthracene	0.109	0.00067	"	0.167		65.2	30-130			

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Martin C Eckert III
Project Number: [none]
Project: Noble - Ball Ranch #AC15-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L665703 - 3550B

LCS (LCS-L665703)

Prepared: 02/23/2023 Analyzed: 02/23/2023

Chrysene	0.118	0.00067	mg/Kg	0.167		70.6	30-130			
Surrogate: 4-Terphenyl-d14	66.3		"	0.333		66.3	33-122			
Surrogate: 2-Fluorobiphenyl	46.2		"	0.333		46.2	33-115			
Surrogate: Nitrobenzene-d5	50.1		"	0.333		50.1	29-110			

LRB (LRB-L665703)

Prepared: 02/23/2023 Analyzed: 02/23/2023

Benzo(k)fluoranthene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Surrogate: Nitrobenzene-d5	42.3		"	0.333		42.3	29-110			
Surrogate: 4-Terphenyl-d14	61.8		"	0.333		61.8	33-122			
Surrogate: 2-Fluorobiphenyl	42.9		"	0.333		42.9	33-115			

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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Ball Ranch #AC15-04

Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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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