



October 19, 2021

Mr. Jacob Evans
Noble Energy, Inc.
2115 117th Avenue
Greeley, Colorado 80631

Field Assessment and Source Excavation Report
Wells Ranch AA #21-04
Wellhead Release
40.477227 / -104.448797
NW¼ NW¼ SEC.21 T6N R63W 6PM
Weld County, Colorado
API # 05-123-26814
Spill ID 480576

Dear Mr. Evans,

Eagle Environmental Consulting, Inc. (EAGLE) is pleased to present this Field Assessment and Source Excavation Report to Noble Energy, Inc. (Noble) for the above referenced site.

1.0 SITE BACKGROUND

On August 25, 2021, EAGLE was requested by Noble to perform assessment activities in response to a surface release associated with the Wells Ranch AA #21-04 wellhead (Site). During farming operations in the field adjacent to the well, a tractor struck the wellhead causing the unintentional release to the surface.

The Site is located within the northwest quarter of the northwest quarter of Section 21, Township 6 north, Range 63 west of the 6th Prime Meridian. The unintentional surface release was located at latitude: 40.477227 and longitude: -104.448797. A topographic site location map is presented as Figure 1. An aerial site location map is presented as Figure 2.

The following narrative details field assessment and source excavation activities completed at the site.

2.0 SITE HYDROGEOLOGY

Based on field observations, soil conditions observed adjacent to the release location consisted of clayey sand from the ground surface to approximately 6.5 feet below ground surface (bgs). Groundwater was not observed during initial assessment or source excavation activities.

2.1 Water Well Reconnaissance

Based on desktop review of water wells near the release location, Receipt#s 9058367, 9058372, and 9064296 were mapped adjacent to the release location. Based on field observations, EAGLE personnel did not observe any wells at the locations mapped with the Colorado Division of Water Resources.

3.0 FIELD ACTIVITIES

3.1 Initial Assessment

EAGLE was requested by Noble to perform assessment activities in response to an unintentional surface release associated with the Wells Ranch AA #21-04 wellhead.

On August 25, 2021, EAGLE collected soil samples from SS-01 through SS-12, PH-01, and PH-02 following initial soil removal to aid in characterizing and delineating residual adsorbed petroleum hydrocarbon impacts. 1888 Industrial Services (1888) and 4X Industrial (4X) provided the necessary equipment and personnel to hydrovac adjacent to the wellhead, and remove soil from the release location. Following sample collection, a portion of each soil sample was placed in a sealable plastic bag for volatile organic compound (VOC) headspace analysis utilizing a field calibrated photoionization detector (PID). Another portion of the soil sample was placed in a 4-ounce glass jar and packed in an iced cooler.

Based on field observations, the initial assessment boundaries extended approximately 55 feet by 40 feet. PID readings ranged from 5.5 parts per million by volume (ppm-v) (SS-03@0.25') to 4,186 ppm-v (SS-01@2'). PID readings are summarized in Table 1. Initial soil sample locations are presented in Figure 3.

Based on field observations and conversations with Noble, soil samples were not submitted for laboratory analysis, and additional source excavation activities were coordinated.

3.2 Source Excavation

From August 25, 2021 through September 1, 2021, EAGLE and Noble supervised excavation activities to remove adsorbed petroleum hydrocarbon impacts beneath and adjacent to, the unintentional surface release associated with the Wells Ranch AA #21-04 wellhead. 1888 and 4X provided the necessary personnel and equipment to remove and transport impacted soil.

Waste characterization / confirmation surficial and sidewall samples (SS-13 through SS-36) and floor samples (FS-01 and FS-06) were collected at various locations to determine the lateral and vertical extent of petroleum hydrocarbon impacts in the soil at the site. A portion of each soil sample was placed in a sealable plastic bag for VOC headspace analysis utilizing a field-calibrated PID. Another portion of the soil sample was placed in 4-ounce glass jars and packed in an iced cooler. Based on field observations, PID readings ranged from 1.2 ppm-v (SS-36@10.5') to 1,691 ppm-v (FS-05@1'). PID readings are summarized in Table 1. Soil sample locations are presented in Figure 4.

Based on field observations and PID analysis, select soil samples were submitted to Origins Laboratory, Inc. (Origins), under standard chain of custody (COC) procedures, for analysis of benzene, toluene, ethylbenzene, total xylenes (BTEX), total petroleum hydrocarbons – gasoline range organics (TPH-GRO), and 1,2,4-trimethylbenzene + 1,3,5-trimethylbenzene (TMBs) following modified Environmental Protection Agency (EPA) Method 8260D, total petroleum hydrocarbons – diesel range organics (TPH-DRO) and total petroleum hydrocarbons – residual range organics (TPH-RRO) following EPA Method 8015D, polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270D, Boron by DTPA/Sorbitol, Sodium Adsorption Ratio (SAR) following Method 20B (Saturated Paste), Specific Conductance (EC) following Modified 9050A (Saturated Paste), pH following EPA Method 9045D (Saturated Paste), Total Metals (Table 915-1) by 6020B and Hexavalent Chromium (Cr VI) by 7196A.

A total of 24 confirmation soil samples (FS-01@5.5', FS-02@5.5', FS-03@5.5', FS-04@5.5', FS-06@6.5', SS-13@4', SS-14@4.5', SS-15@4.5', SS-16@4.5', SS-17@4.5', SS-19@4.5', SS-20@4.5',

SS-21@4.5', SS-22@4.5', SS-23@4.5', SS-24@5', SS-25@5', SS-26@5', SS-27@5', SS-32@0.25', SS-33@0.25', SS-34@0.25', SS-35@0.25', and SS-36@0.25-0.5') were submitted for laboratory analysis. Spatial location of each soil sample was recorded using a Trimble GeoXT 6000 series instrument.

On September 7, 2021, a background sample (Background-01@5.5') was collected for laboratory analysis/comparison of SAR following Method 20B (Saturated Paste), EC following Modified 9050A (Saturated Paste), pH following EPA Method 9045D (Saturated Paste), Total Metals (Table 915-1) by 6020B and Hexavalent Chromium (Cr VI) by 7196A.

The final limits of the Wells Ranch AA #21-04 wellhead excavation extended approximately 57 feet northeast to southwest and 40 feet northwest to southeast. The excavation was advanced to a depth of approximately 5.5 to 6.5 feet bgs. Approximately 530 cubic yards of soil were removed and transported offsite for disposal at North Weld Landfill, located in Ault, Colorado and Republic Services in Commerce City, Colorado.

A photolog documenting source excavation activities is included in Attachment A.

3.2.1 Source Excavation Soil Analytical Results

Based on soil analytical results:

- Soil sample SS-32@0.25' contained concentrations of 1,2,4-TMB (0.00982 milligrams per kilogram (mg/kg)), 1-methylnaphthalene (0.122 mg/kg), 2-methylnaphthalene (0.133 mg/kg), and naphthalene (0.0165 mg/kg) that exceed the applicable COGCC Table 915-1 protection of groundwater soil screening levels of 0.008 mg/kg, 0.006 mg/kg, 0.019 mg/kg, and 0.0038 mg/kg, respectively. Additional soil was removed, and confirmation soil sample SS-36@0.25-0.5' was collected. All concentrations in SS-36@0.25-0.5' were below COGCC Table 915-1 regulatory limits.
- Soil sample SS-33@0.25' contained concentrations of 1-methylnaphthalene (0.0276 mg/kg) and 2-methylnaphthalene (0.0411 mg/kg) that exceed the applicable COGCC Table 915-1 protection of groundwater soil screening levels of 0.006 mg/kg and 0.019 mg/kg, respectively.
- Soil samples SS-13@4', SS-21@4.5', SS-26@5', SS-34@0.25', FS-02@5.5', and FS-03@5.5' contained arsenic concentrations (2.12 mg/kg, 1.97 mg/kg, 2.05 mg/kg, 3.59 mg/kg, 2.36 mg/kg, and 2.53 mg/kg, respectively) that exceed the COGCC Table 915-1 regulatory limits and local background clean-up level (1.96 mg/kg).
- Soil samples SS-24@5', SS-25@5', SS-32@0.25', SS-33@0.25', SS-35@0.25', FS-02@5.5', and FS-03@5.5' contained barium concentrations (83.3 mg/kg, 95.1 mg/kg, 92.4 mg/kg, 173 mg/kg, 175 mg/kg, 104 mg/kg, and 239 mg/kg, respectively) that exceed the COGCC Table 915-1 protection of groundwater soil screening level of 82 mg/kg.
- Soil sample SS-16@4.5' contained a pH value (8.37) that exceeds the COGCC Table 915-1 regulatory range of 6-8.3. The pH value in SS-16@4.5' is elevated compared to the background value of 7.78.
- Soil samples FS-02@5.5', FS-03@5.5', and SS-25@5' contained EC values (6.63 millimhos per centimeter (mmhos/cm), 5.57 mmhos/cm, and 4.02 mmhos/cm, respectively) that exceed the COGCC Table 915-1 regulatory limit of 4 mmhos/cm. The EC values in FS-02@5.5', FS-

03@5.5', and SS-25@5' are elevated compared to the background value of 2.79 mmhos/cm.

- Soil samples FS-02@5.5', FS-03@5.5', and SS-25@5' contained SAR values (7.65, 6.57, and 8.40, respectively) that exceed the COGCC Table 915-1 regulatory limit of 6. The SAR values in FS-02@5.5', FS-03@5.5', and SS-25@5' are elevated compared to the background value of 3.02.

Excavation sidewall and surficial soil analytical results are presented in Figure 5A and summarized in Table 2. Excavation floor soil analytical results are presented in Figure 5B and summarized in Table 2. Excavation PAH analytical results are presented in Figure 6 and summarized in Table 3. Excavation sidewall and surficial metals analytical results are presented in Figure 7A and summarized in Table 4. Excavation floor metals analytical results are presented in Figure 7B and summarized in Table 4. The soil laboratory analytical reports are included in Attachment B.

3.3 Additional Soil Assessment

Per COGCC Rule 915.e.(2), following removal of all soil onsite, EAGLE collected one, 20-pt composite sample per 500 square feet of surface area beneath the stockpile. The stockpile composite sample (Stockpile-01@0.25') was submitted to Origins for analysis of BTEX, TPH-GRO, and TMBs following modified EPA Method 8260D, TPH-DRO and TPH-RRO following EPA Method 8015D, PAHs by EPA Method 8270D, Boron by DTPA/Sorbitol, SAR following Method 20B (Saturated Paste), EC following Modified 9050A (Saturated Paste), pH following EPA Method 9045D (Saturated Paste), Total Metals (Table 915-1) by 6020B and Hexavalent Chromium (Cr VI) by 7196A. The laboratory received the soil sample within the required holding time for each analysis.

3.3.1 Additional Soil Assessment Analytical Results

Based on soil analytical results:

- Soil sample Stockpile-01@0.25' contained concentrations of 1,2,4-TMB (0.0151 mg/kg), 1-methylnaphthalene (0.093 mg/kg), 2-methylnaphthalene (0.114 mg/kg), naphthalene (0.0235 mg/kg), arsenic (1.96 mg/kg), barium (1,380 mg/kg), and selenium (0.317 mg/kg) exceeding the applicable COGCC Table 915-1 protection of groundwater soil screening levels of 0.0081 mg/kg, 0.006 mg/kg, 0.019 mg/kg, 0.00338 mg/kg, 1.96 mg/kg (local clean-up), 82 mg/kg, and 0.26 mg/kg, respectively. Additional soil was scraped from the previous stockpile location, and confirmation sample Stockpile-02@0.25-0.5' was collected.
- Soil sample Stockpile-02@0.25-0.5' contained a concentration of barium (93 mg/kg) that exceeds the COGCC Table 915-1 protection of groundwater soil screening level of 82 mg/kg.

Stockpile soil analytical results are summarized in Table 2. Stockpile PAH analytical results are summarized in Table 3. Stockpile metals analytical results are summarized in Table 4. The soil laboratory analytical reports are included in Attachment B.

4.0 CONCLUSIONS

Based on the information collected during excavation activities completed at the site August 25, 2021 through September 7, 2021, EAGLE concludes the following:

- An unintentional surface release occurred when a tractor struck the Wells Ranch AA #21-04 wellhead.
- On August 25, 2021, soil samples SS-01 through SS-12, PH-01, and PH-02 were collected following initial soil removal to aid in characterizing and delineating residual adsorbed petroleum hydrocarbon impacts. Based on field observations and conversations onsite, soil samples were not submitted, and additional source excavation activities were scheduled.
- From August 25, 2021 through September 1, 2021, approximately 530 cubic yards of soil were removed from the excavation.
- Soil sample SS-32@0.25' contained concentrations of 1,2,4-TMB, 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene that exceed the applicable COGCC Table 915-1 protection of groundwater soil screening levels. Additional soil was removed, and confirmation soil sample SS-36@0.25-0.5' was collected. All concentrations in SS-36@0.25-0.5' were below COGCC Table 915-1 regulatory limits.
- Soil sample SS-33@0.25' contained concentrations of 1-methylnaphthalene and 2-methylnaphthalene that exceed the applicable COGCC Table 915-1 protection of groundwater soil screening levels. Confirmation samples for lateral/vertical definition and applicability of the COGCC Table 915-1 protection of groundwater soil screening level adjacent to this sample will be required.
- Soil samples SS-13@4', SS-21@4.5', SS-26@5', SS-34@0.25', FS-02@5.5', and FS-03@5.5' contained arsenic concentrations that exceed the COGCC Table 915-1 regulatory limits and local background clean-up level. Confirmation samples for lateral/vertical definition adjacent to these samples will be required.
- Soil samples SS-24@5', SS-25@5', SS-32@0.25', SS-33@0.25', SS-35@0.25', FS-02@5.5', and FS-03@5.5' contained barium concentrations that exceed the applicable COGCC Table 915-1 protection of groundwater soil screening level. Confirmation samples for lateral/vertical definition adjacent to these samples will be required.
- Soil sample SS-16@4.5' contained a pH value that exceeds the COGCC Table 915-1 regulatory range of 6-8.3. The pH value in SS-16@4.5' is elevated compared to the background value of 7.78. Confirmation samples for lateral/vertical definition adjacent to this sample will be required.
- Soil samples FS-02@5.5', FS-03@5.5', and SS-25@5' contained EC values that exceed the COGCC Table 915-1 regulatory limit of 4 mmhos/cm. The EC values in FS-02@5.5', FS-03@5.5', and SS-25@5' are elevated compared to the background value of 2.79 mmhos/cm. Confirmation samples for lateral/vertical definition adjacent to these samples will be required.
- Soil samples FS-02@5.5', FS-03@5.5', and SS-25@5' contained SAR values that exceed the COGCC Table 915-1 regulatory limit of 6. The SAR values in FS-02@5.5', FS-03@5.5', and SS-

25@5' are elevated compared to the background value of 3.02. Confirmation samples for lateral/vertical definition adjacent to these samples will be required.

- Soil sample Stockpile-01@0.25' contained concentrations of 1,2,4-TMB, 1-methylnaphthalene, 2-methylnaphthalene, naphthalene, arsenic, barium, and selenium exceeding the applicable COGCC Table 915-1 protection of groundwater soil screening levels. Additional soil was scraped from the previous stockpile location, and confirmation sample Stockpile-02@0.25-0.5' was collected.
- Soil sample Stockpile-02@0.25-0.5' contained a concentration of barium that exceeds the applicable COGCC Table 915-1 protection of groundwater soil screening level. Confirmation samples for lateral/vertical definition adjacent to this sample will be required.

5.0 RECOMMENDATIONS

Based on the information presented in this report, EAGLE recommends the following:

- Complete soil assessment activities to delineate residual petroleum hydrocarbon soil impacts that exceed COGCC Table 915-1 residential soil screening levels and determine the applicability of COGCC Table 915-1 protection of groundwater soil screening levels adjacent to soil samples SS-13, SS-21, SS-24, SS-25, SS-26, SS-33, SS-34, SS-35, FS-02, FS-03, and Stockpile-02.

EAGLE sincerely appreciates the opportunity to provide our services. If you have any questions or require further information, please contact us at (303) 433-0479.

Sincerely,

EAGLE ENVIRONMENTAL CONSULTING, INC.



Kevin Peterson
Project Geologist



Andrew Newberry
Project Geologist

FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Initial Soil Sample Location Map

Figure 4: Excavation Soil Sample Location Map

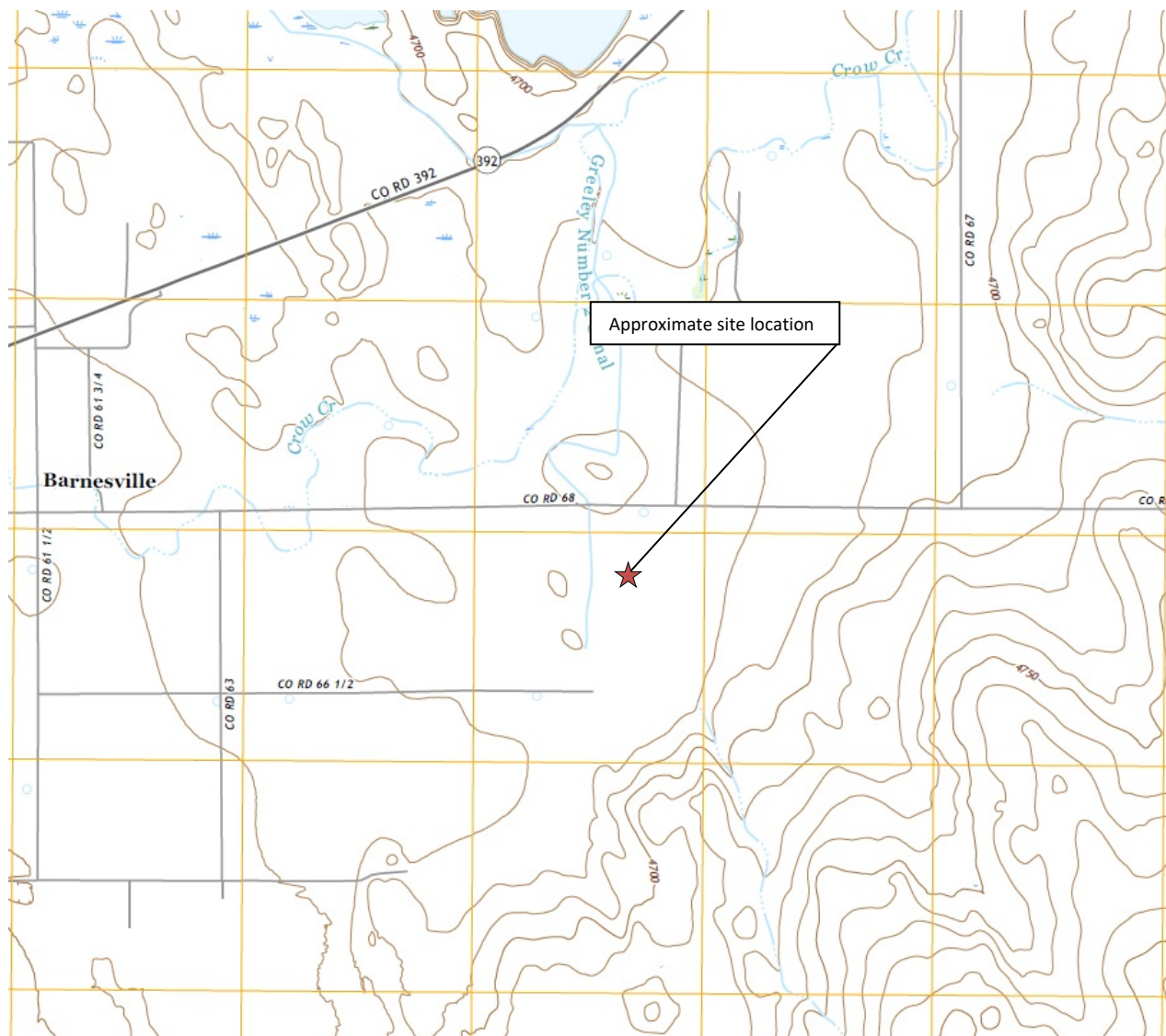
Figure 5A: Excavation Sidewall/Surficial Analytical Map

Figure 5B: Excavation Floor Analytical Map

Figure 6: Excavation PAH Analytical Map

Figure 7A: Metals in Soil Map – Excavation Sidewall/Surficial

Figure 7B: Metals in Soil Map – Excavation Floor



Topographic Site Location Map

Wells Ranch AA #21-04
Wellhead Release
40.477227 / -104.448797
NW¼ NW¼ SEC.21 T6N R63W 6PM
Weld County, Colorado
API # 05-123-26814
Spill ID 480576



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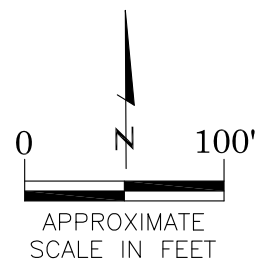
Source: USGS 7.5 Minute Topographic
Map, Barnesville, CO Quadrangle 2019

Figure 1



LEGEND

- WELLS RANCH AA #21-04 WELL HEAD / RELEASE LOCATION
- ASSOCIATED TANK BATTERY



AERIAL SITE LOCATION MAP
 WELLS RANCH AA #21-04
 WELLHEAD RELEASE
 40.477227 / -104.448797
 NW¼ NW¼ SEC.21 T6N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-26814
 SPILL ID 480576

DATE:
 10/19/21

FIG. NO.
 2

DRAWN BY:
 GEC



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

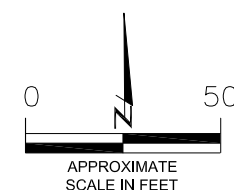


LEGEND

----- APPROXIMATE WELLHEAD/RELEASE LOCATION

----- INITIAL RELEASE FOOTPRINT

● SS-01
APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR (PID)

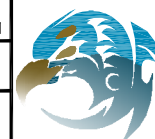


INITIAL SOIL SAMPLE LOCATION MAP
WELLS RANCH AA #21-4
WELLHEAD RELEASE
40.477227 / -104.448797
NW¼ NW¼ SEC.21 T6N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-26814
SPILL ID 480576

DATE:
10/19/21

DRAWN BY:
AMN

FIG.
NO. 3



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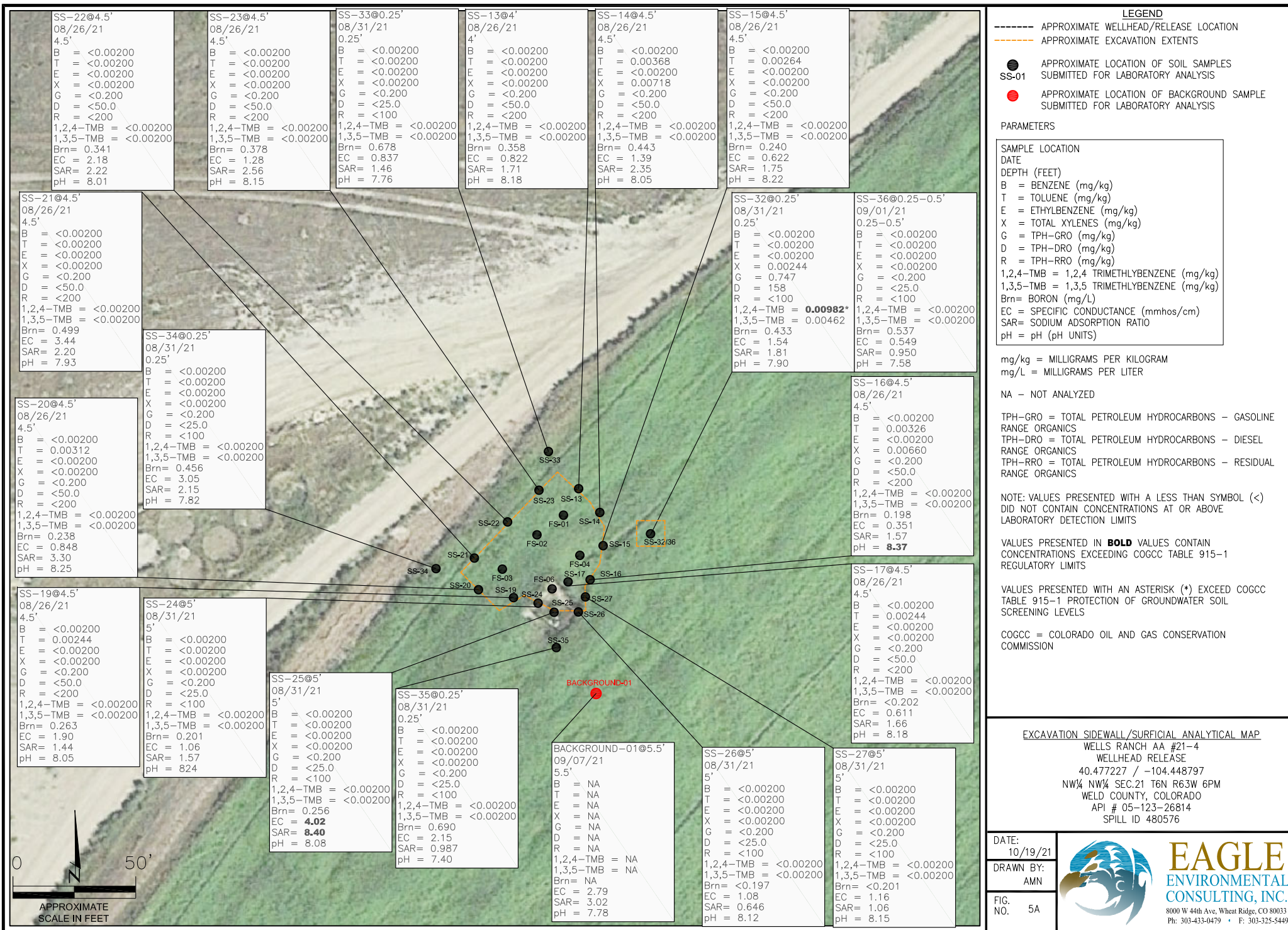
- LEGEND**
- APPROXIMATE WELLHEAD/RELEASE LOCATION
 - APPROXIMATE EXCAVATION EXTENTS
 - SS-01 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR (PID)
 - SS-01 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
 - APPROXIMATE LOCATION OF BACKGROUND SAMPLE SUBMITTED FOR LABORATORY ANALYSIS

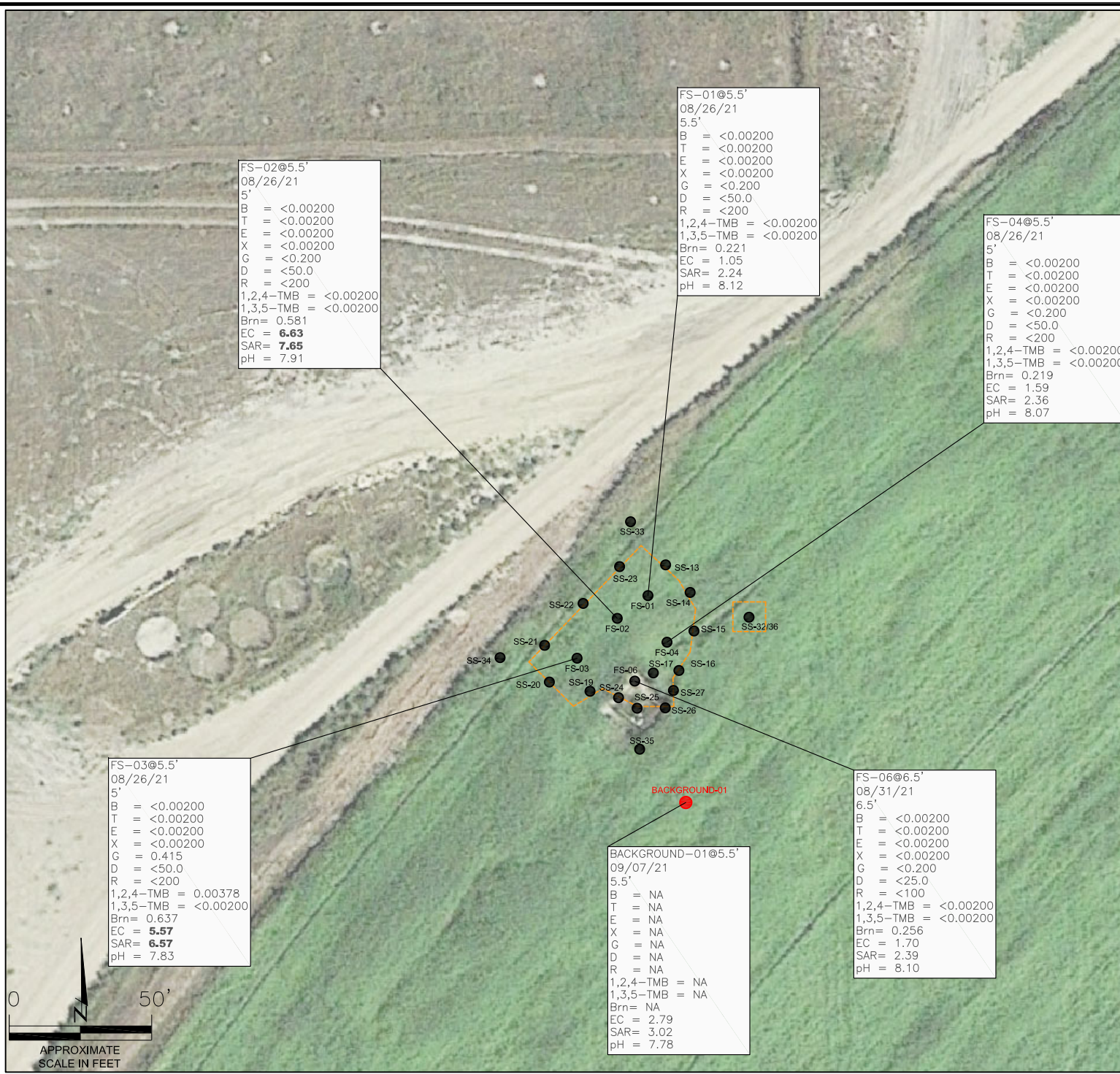
EXCAVATION SOIL SAMPLE LOCATION MAP
 WELLS RANCH AA #21-4
 WELLHEAD RELEASE
 40.477227 / -104.448797
 NW¼ NW¼ SEC.21 T6N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-26814
 SPILL ID 480576

DATE:
10/19/21
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AMN
 FIG.
NO. 4



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LEGEND

- APPROXIMATE WELLHEAD/RELEASE LOCATION
- APPROXIMATE EXCAVATION EXTENTS

- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- APPROXIMATE LOCATION OF BACKGROUND SAMPLE 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

NA - NOT ANALYZED

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS

TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

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

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

VALUES PRESENTED WITH AN ASTERISK (*) EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

EXCAVATION FLOOR ANALYTICAL MAP

WELLS RANCH AA #21-4

WELLHEAD RELEASE

40.477227 / -104.448797

NW¼ NW¼ SEC.21 T6N R63W 6PM

WELD COUNTY, COLORADO

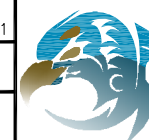
API # 05-123-26814

SPILL ID 480576

DATE:
10/19/21

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FIG.
NO. 5B



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SS-33@0.25'
08/31/21
0.25'

1-Methylnaphthalene = **0.0276***
2-Methylnaphthalene = **0.0411***
Acenaphthene = 0.00284
Anthracene = <0.00067
Benzo(a)anthracene = 0.000484
Benzo(a)pyrene = 0.000588
Benzo(b)fluoranthene = 0.000347
Benzo(k)fluoranthene = <0.00067
Chrysene = 0.0031
Dibenzo(a,h)anthracene = <0.00067
Fluoranthene = <0.00067
Fluorene = 0.00882
Indeno(1,2,3-CD)pyrene = <0.00068
Naphthalene = 0.00282
Pyrene = 0.00108

SS-32@0.25'
08/31/21
0.25'

1-Methylnaphthalene = **0.122***
2-Methylnaphthalene = **0.133***
Acenaphthene = 0.012
Anthracene = 0.00198
Benzo(a)anthracene = 0.00365
Benzo(a)pyrene = 0.000915
Benzo(b)fluoranthene = 0.000519
Benzo(k)fluoranthene = <0.00067
Chrysene = 0.00981
Dibenzo(a,h)anthracene = 0.000446
Fluoranthene = <0.00067
Fluorene = 0.0384
Indeno(1,2,3-CD)pyrene = 0.000351
Naphthalene = **0.0165***
Pyrene = 0.00398

SS-36@0.25-0.5'
08/31/21
0.25-0.5'

1-Methylnaphthalene = 0.00191
2-Methylnaphthalene = 0.00283
Acenaphthene = <0.00067
Anthracene = <0.00067
Benzo(a)anthracene = <0.00067
Benzo(a)pyrene = 0.00033
Benzo(b)fluoranthene = <0.00067
Benzo(k)fluoranthene = <0.00067
Chrysene = 0.0007
Dibenzo(a,h)anthracene = <0.00067
Fluoranthene = <0.00067
Fluorene = 0.00101
Indeno(1,2,3-CD)pyrene = <0.00067
Naphthalene = <0.00067
Pyrene = <0.00067

LEGEND

----- APPROXIMATE WELLHEAD/RELEASE LOCATION

----- APPROXIMATE EXCAVATION EXTENTS

● APPROXIMATE LOCATION OF SOIL SAMPLES
SS-01 SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION

DATE SAMPLE COLLECTED

APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)

NOTE:
CONCENTRATIONS PRESENTED IN mg/kg

mg/kg = MILLIGRAMS PER KILOGRAM

(BRL) = ALL CONCENTRATIONS BELOW REGULATORY LIMITS

MDL = MINIMUM DETECTION LIMIT


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

VALUES PRESENTED IN **BOLD** TYPEFACE EXCEED COGCC TABLE 915-1 REGULATORY LIMITS FOR THAT COMPOUND.

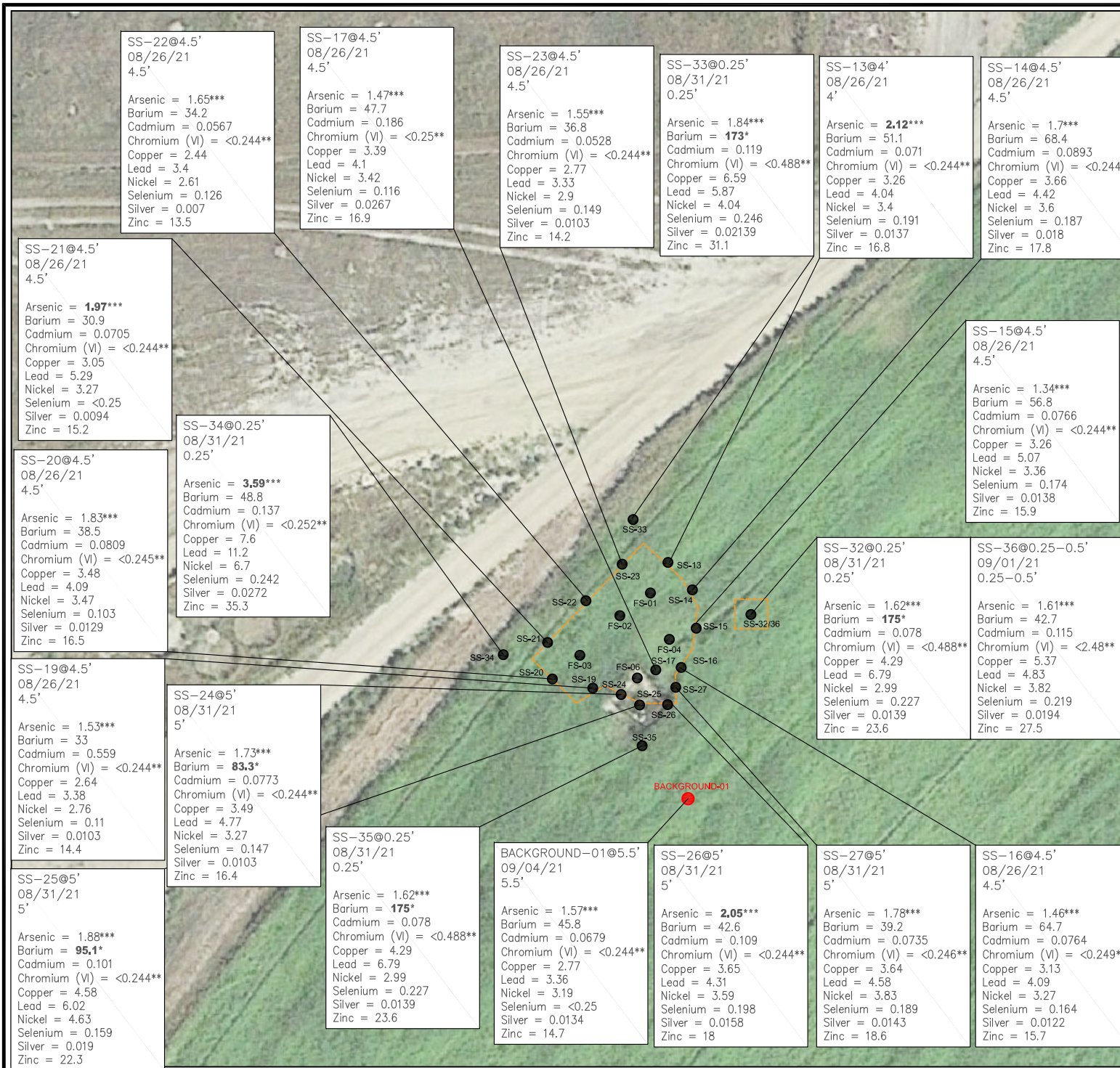
VALUES PRESENTED WITH AN ASTERISK (*) EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS

COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION

EXCAVATION PAH ANALYTICAL MAP
WELLS RANCH AA #21-4
WELLHEAD RELEASE
40.477227 / -104.448797
NW¼ NW¼ SEC.21 T6N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-26814
SPILL ID 480576

DATE: 10/19/21	
DRAWN BY: AMN	
FIG. NO. 6	

EAGLE ENVIRONMENTAL CONSULTING, INC.
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Ph: 303-433-0479 • F: 303-325-5449



- LEGEND**
- APPROXIMATE WELLHEAD/RELEASE LOCATION
 - APPROXIMATE EXCAVATION EXTENTS
 - SS-01 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
 - APPROXIMATE LOCATION OF BACKGROUND SAMPLE SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

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

mg/kg = MILLIGRAMS PER KILOGRAM

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

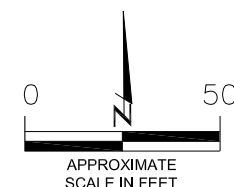
VALUES PRESENTED IN **BOLD** VALUES CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 VALUES

*VALUES EXCEED COGCC TABLE 915-1 "PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS" FOR THAT COMPOUND.

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

***ARSENIC IS NATURALLY OCCURRING IN COLORADO. LOCAL BACKGROUND CLEAN-UP LEVEL (1.96 mg/kg) IS 1.25*BACKGROUND (1.57 mg/kg).

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION



METALS IN SOIL MAP - EXCAVATION SIDEWALL/SURFICIAL
WELLS RANCH AA #21-4
WELLHEAD RELEASE
40.477227 / -104.448797
NW¼ NW¼ SEC.21 T6N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-26814
SPILL ID 480576

DATE:
10/19/21
DRAWN BY:
AMN
FIG.
NO. 7A



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



- LEGEND**
- APPROXIMATE WELLHEAD/RELEASE LOCATION
 - - - - - APPROXIMATE EXCAVATION EXTENTS
 - APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
 - APPROXIMATE LOCATION OF BACKGROUND SAMPLE SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

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

mg/kg = MILLIGRAMS PER KILOGRAM

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

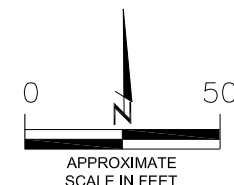
VALUES PRESENTED IN **BOLD** VALUES CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 915-1 VALUES

*VALUES EXCEED COGCC TABLE 915-1 "PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS" FOR THAT COMPOUND.

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

***ARSENIC IS NATURALLY OCCURRING IN COLORADO. LOCAL BACKGROUND CLEAN-UP LEVEL (1.96 mg/kg) IS 1.25*BACKGROUND (1.57 mg/kg).

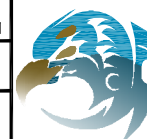
COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION



METALS IN SOIL MAP -- EXCAVATION FLOOR

WELLS RANCH AA #21-4
WELLHEAD RELEASE
40.477227 / -104.448797
NW¼ NW¼ SEC.21 T6N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-26814
SPILL ID 480576

DATE:
10/19/21
DRAWN BY:
AMN
FIG.
NO. 7B



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

TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

Table 3: Polycyclic Aromatic Hydrocarbons Analytical Results Summary

Table 4: Metals Analytical Results Summary

TABLE 1
PID READING SUMMARY
WELLS RANCH AA #21-04
WELLHEAD RELEASE
40.477227 / -104.448797
NW1/4 NW1/4 SEC.21 T6N R35W 6PM
WELD COUNTY, COLORADO
API # 05-123-26814
SPILL ID 480576

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
SS-01 @ 2' (40.477248 / -104.448835)	08/24/21	2	4186	N
SS-02 @ 0.25' (40.477206 / -104.448858)	08/24/21	0.25	10.4	N
SS-03 @ 0.25' (40.477246 / -104.448905)	08/24/21	0.25	5.5	N
SS-04 @ 0.25' (40.477315 / -104.448891)	08/24/21	0.25	21.8	N
SS-05 @ 0.25' (40.477361 / -104.448776)	08/24/21	0.25	21.2	N
SS-06 @ 0.25' (40.477314 / -104.448708)	08/24/21	0.25	21.7	N
SS-07 @ 0.25' (40.477234 / -104.448731)	08/24/21	0.25	8.4	N
SS-08 @ 4' (40.477247 / -104.448834)	08/24/21	4	132.3	N
SS-09 @ 4' (40.477283 / -104.448850)	08/24/21	4	1237	N
SS-10 @ 4' (40.477323 / -104.448801)	08/24/21	4	1866	N
SS-11 @ 4' (40.477298 / -104.448759)	08/24/21	4	2068	N
SS-12 @ 4' (40.477262 / -104.448787)	08/24/21	4	2793	N
PH-01 @ 5.5' (40.477263 / -104.448788)	08/24/21	5.5	209.3	N
PH-02 @ 6' (40.477263 / -104.448788)	08/24/21	6	23.6	N
FS-01 @ 5.5' (40.477324 / -104.448779)	08/26/21	5.5	112.4	Y
FS-02 @ 5.5' (40.477304 / -104.44882)	08/26/21	5.5	82.5	Y
FS-03 @ 5.5' (40.477262 / -104.448868)	08/26/21	5.5	122.7	Y
FS-04 @ 5.5' (40.477281 / -104.448755)	08/26/21	5.5	14.8	Y
FS-05 @ 1' (40.47723 / -104.448781)	08/27/21	1.0	1691	N
SS-13 @ 4' (40.477346 / -104.448760)	08/26/21	4	91.6	Y
SS-14 @ 4.5' (40.477321 / -104.448726)	08/26/21	4.5	8.3	Y
SS-15 @ 4.5' (40.477287 / -104.448724)	08/26/21	4.5	6.4	Y
SS-16 @ 4.5' (40.477256 / -104.448745)	08/26/21	4.5	5.7	Y
SS-17 @ 4.5' (40.477255 / -104.448768)	08/26/21	4.5	21.7	Y
SS-18 @ 4.5' (40.477261 / -104.448802)	08/26/21	4.5	1596	N

TABLE 1
PID READING SUMMARY
WELLS RANCH AA #21-04
WELLHEAD RELEASE
40.477227 / -104.448797
NW1/4 NW1/4 SEC.21 T6N R35W 6PM
WELD COUNTY, COLORADO
API # 05-123-26814
SPILL ID 480576

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
SS-19 @ 4.5' (40.477233 / -104.448851)	08/26/21	4.5	14.5	Y
SS-20 @ 4.5' (40.477240 / -104.448899)	08/26/21	4.5	14.1	Y
SS-21 @ 4.5' (40.477281 / -104.448888)	08/26/21	4.5	8.6	Y
SS-22 @ 4.5' (40.477311 / -104.448849)	08/26/21	4.5	9.9	Y
SS-23 @ 4.5' (40.477340 / -104.448813)	08/26/21	4.5	17.8	Y
FS-06 @ 6.5' (40.477243 / -104.448785)	08/31/21	6.5	23.6	Y
SS-24 @ 5' (40.477225 / -104.448812)	08/31/21	5	5.5	Y
SS-25 @ 5' (40.477219 / -104.448793)	08/31/21	5	22.0	Y
SS-26 @ 5' (40.477219 / -104.448766)	08/31/21	5	18.0	Y
SS-27 @ 5' (40.477233 / -104.448751)	08/31/21	5	21.1	Y
SS-28 @ 5' (40.477226 / -104.448756)	08/31/21	5	6.9	N
SS-29 @ 3' (40.477214 / -104.448873)	08/31/21	3	23.2	N
SS-30 @ 3' (40.477222 / -104.448831)	08/31/21	3	8.3	N
SS-31 @ 6' (40.477223 / -104.448778)	08/31/21	6	15.8	N
SS-32 @ 0.25' (40.477290 / -104.448670)	08/31/21	0.25	12.3	Y
SS-33 @ 0.25' (40.477378 / -104.448801)	08/31/21	0.25	4.2	Y
SS-34 @ 0.25' (40.477250 / -104.448950)	08/31/21	0.25	4.0	Y
SS-35 @ 0.25' (40.477167 / -104.448789)	08/31/21	0.25	3.5	Y
Stockpile-01 @ 0.25' (40.477208 / -104.448681)	08/31/21	0.25	5.2	Y
SS-36 @ 0.25-0.5' (40.477289 / -104.448671)	09/01/21	0.25	1.2	Y
Stockpile-02 @ 0.25-0.5' (40.477208 / -104.448681)	09/01/21	0.25-0.5	3.2	Y
Background-01 @ 5.5' (40.477100 / -104.448725)	09/07/21	5.5	0.1	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
WELLS RANCH AA #21-04
WELLHEAD RELEASE
40.477227 / -104.448797
NW1/4 NW1/4 SEC.21 T6N R35W 6PM
WELD COUNTY, COLORADO
API # 05-123-26814
SPILL ID 480576

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
COGCC Table 915-1 Residential Screening Levels (mg/kg)				1.2	490	5.8	58	500			30	27	2	<4	6-8.3	<6
COGCC Table 915-1 Protection of Groundwater Soil Screening Levels				0.0026	0.69	0.78	9.9	--			0.0081	0.0087	--	--	--	--
SS-13 @ 4' (40.477346 / -104.448760)	08/26/21	4	91.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<50.0	<200	<0.00200	<0.00200	0.358	0.822	8.18	1.71
SS-14 @ 4.5' (40.477321 / -104.448726)	08/26/21	4.5	8.3	<0.00200	0.00368	<0.00200	0.00718	<0.200	<50.0	<200	<0.00200	<0.00200	0.443	1.39	8.05	2.35
SS-15 @ 4.5' (40.477287 / -104.448724)	08/26/21	4.5	6.4	<0.00200	0.00264	<0.00200	<0.00200	<0.200	<50.0	<200	<0.00200	<0.00200	0.240	0.622	8.22	1.75
SS-16 @ 4.5' (40.477256 / -104.448745)	08/26/21	4.5	5.7	<0.00200	0.00326	<0.00200	0.00660	<0.200	<50.0	<200	<0.00200	<0.00200	0.198	0.351	8.37	1.57
SS-17 @ 4.5' (40.477255 / -104.448768)	08/26/21	4.5	21.7	<0.00200	0.00244	<0.00200	<0.00200	<0.200	<50.0	<200	<0.00200	<0.00200	<0.202	0.611	8.18	1.66
SS-19 @ 4.5' (40.477233 / -104.448851)	08/26/21	4.5	14.5	<0.00200	0.00244	<0.00200	<0.00200	<0.200	<50.0	<200	<0.00200	<0.00200	0.263	1.90	8.05	1.44
SS-20 @ 4.5' (40.477240 / -104.448899)	08/26/21	4.5	14.1	<0.00200	0.00312	<0.00200	<0.00200	<0.200	<50.0	<200	<0.00200	<0.00200	0.238	0.848	8.25	3.30
SS-21 @ 4.5' (40.477281 / -104.448888)	08/26/21	4.5	8.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<50.0	<200	<0.00200	<0.00200	0.499	3.44	7.93	2.20
SS-22 @ 4.5' (40.477311 / -104.448849)	08/26/21	4.5	9.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<50.0	<200	<0.00200	<0.00200	0.341	2.18	8.01	2.22
SS-23 @ 4.5' (40.477340 / -104.448813)	08/26/21	4.5	17.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<50.0	<200	<0.00200	<0.00200	0.378	1.28	8.15	2.56
FS-01 @ 5.5' (40.477324 / -104.448779)	08/26/21	5.5	112.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<50.0	<200	<0.00200	<0.00200	0.221	1.05	8.12	2.24
FS-02 @ 5.5' (40.477304 / -104.448882)	08/26/21	5.5	82.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<50.0	<200	<0.00200	<0.00200	0.581	6.63	7.91	7.65
FS-03 @ 5.5' (40.477262 / -104.448868)	08/26/21	5.5	122.7	<0.00200	<0.00200	<0.00200	<0.00200	0.415	<50.0	<200	0.00378	<0.00200	0.637	5.57	7.83	6.57
FS-04 @ 5.5' (40.477281 / -104.448755)	08/26/21	5.5	14.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<50.0	<200	<0.00200	<0.00200	0.219	1.59	8.07	2.36
FS-06 @ 6.5' (40.477243 / -104.448785)	08/31/21	6.5	23.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.256	1.70	8.10	2.39
SS-24 @ 5' (40.477225 / -104.448812)	08/31/21	5	5.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.201	1.06	8.24	1.57
SS-25 @ 5' (40.477219 / -104.448793)	08/31/21	5	22.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.256	4.02	8.08	8.40
SS-26 @ 5' (40.477219 / -104.448766)	08/31/21	5	18.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.197	1.08	8.12	0.646
SS-27 @ 5' (40.477233 / -104.448751)	08/31/21	5	21.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.201	1.16	8.15	1.06
SS-32 @ 0.25' (40.477290 / -104.448670)	08/31/21	0.25	12.3	<0.00200	<0.00200	<0.00200	0.00244	0.747	158	<100	0.00982*	0.00462	0.433	1.54	7.90	1.81
SS-33 @ 0.25' (40.477378 / -104.448801)	08/31/21	0.25	4.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.678	0.837	7.76	1.46
SS-34 @ 0.25' (40.477250 / -104.448950)	08/31/21	0.25	4.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.456	3.05	7.82	2.15
SS-35 @ 0.25' (40.477167 / -104.448789)	08/31/21	0.25	3.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.690	2.15	7.40	0.987

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
WELLS RANCH AA #21-04
WELLHEAD RELEASE
40.477227 / -104.448797
NW1/4 NW1/4 SEC.21 T6N R35W 6PM
WELD COUNTY, COLORADO
API # 05-123-26814
SPILL ID 480576

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
COGCC Table 915-1 Residential Screening Levels (mg/kg)				1.2	490	5.8	58	500			30	27	2	<4	6-8.3	<6
COGCC Table 915-1 Protection of Groundwater Soil Screening Levels				0.0026	0.69	0.78	9.9	--			0.0081	0.0087	--	--	--	--
Stockpile-01 @ 0.25' (40.477208 / -104.448681)	08/31/21	0.25	5.2	<0.00200	0.00396	0.00214	0.0200	0.679	50.0	<100	0.0151*	0.00366	0.683	0.906	7.70	1.19
SS-36 @ 0.25-0.5' (40.477289 / -104.448671)	09/01/21	0.25-0.5	1.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.537	0.549	7.58	0.950
Stockpile-02 @ 0.25-0.5' (40.477208 / -104.448681)	09/01/21	0.25-0.5	3.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.462	0.589	7.49	1.38
Background-01 @ 5.5' (40.477100 / -104.448725)	09/07/21	5.5	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.79	7.78	3.02
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram PID = Photoionization Detector ppm-v = parts per million by volume mmhos/cm = millimhos per centimeter SAR = Sodium Adsorption Ratio mg/L = milligrams per liter 1,2,4-TMB = 1,2,4-Trimethylbenzene TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics 1,3,5-TMB = 1,3,5-Trimethylbenzene TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit. Note: Values presented in BOLD contained concentrations exceeding COGCC Table 915-1 Regulatory Limits Note: Values presented with an asterisk (*) contained concentrations exceeding COGCC Table 915-1 Protection of Groundwater Soil Screening Levels																

TABLE 3
PAH ANALYTICAL RESULTS SUMMARY
WELLS RANCH AA #21-04
WELLHEAD RELEASE
40.477227 / -104.448797
NW1/4 NW1/4 SEC.21 T6N R35W 6PM
WELD COUNTY, COLORADO
API # 05-123-26814
SPILL ID 480576

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm- v)	1-Methyl- naphthalene (mg/kg)	2-Methyl-naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)-anthracene (mg/kg)	Benzo(a)- pyrene (mg/kg)	Benzo(b)- fluoranthene (mg/kg)	Benzo(k)- fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)- anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3- cd)-pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
COGCC Table 915-1 Residential Screening Levels				18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	2	180
COGCC Table 915-1 Protection of Groundwater Soil Screening Levels				0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	0.0038	1.3
SS-13 @ 4' (40.477346 / -104.448760)	08/26/21	4	91.6	0.000849	0.00124	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000249	<0.00067	<0.00067	0.000637	<0.00067	<0.00067	<0.00067
SS-14 @ 4.5' (40.477321 / -104.448726)	08/26/21	4.5	8.3	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-15 @ 4.5' (40.477287 / -104.448724)	08/26/21	4.5	6.4	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-16 @ 4.5' (40.477256 / -104.448745)	08/26/21	4.5	5.7	0.000489	0.00119	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000479	<0.00067
SS-17 @ 4.5' (40.477255 / -104.448768)	08/26/21	4.5	21.7	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-19 @ 4.5' (40.477233 / -104.448851)	08/26/21	4.5	14.5	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-20 @ 4.5' (40.477240 / -104.448899)	08/26/21	4.5	14.1	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-21 @ 4.5' (40.477281 / -104.448888)	08/26/21	4.5	8.6	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-22 @ 4.5' (40.477311 / -104.448849)	08/26/21	4.5	9.9	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-23 @ 4.5' (40.477340 / -104.448813)	08/26/21	4.5	17.8	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
FS-01 @ 5.5' (40.477324 / -104.448779)	08/26/21	5.5	112.4	0.00326	0.00443	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.0009	<0.00067	<0.00067	0.00178	<0.00067	<0.00067	<0.00067
FS-02 @ 5.5' (40.477304 / -104.44882)	08/26/21	5.5	82.5	0.00168	0.00239	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00338	<0.00067	<0.00067	0.000704	<0.00067	<0.00067	<0.00067
FS-03 @ 5.5' (40.477262 / -104.448868)	08/26/21	5.5	122.7	0.00579	0.00776	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.00112	<0.00067	<0.00067	0.00296	<0.00067	0.00101	<0.00067
FS-04 @ 5.5' (40.477281 / -104.448755)	08/26/21	5.5	14.8	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
FS-06 @ 6.5' (40.477243 / -104.448785)	08/31/21	6.5	23.6	<0.00067	0.000721	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-24 @ 5' (40.477225 / -104.448812)	08/31/21	5	5.5	0.000616	0.00187	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000837	<0.00067
SS-25 @ 5' (40.477219 / -104.448793)	08/31/21	5	22.0	<0.00067	0.000721	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-26 @ 5' (40.477219 / -104.448766)	08/31/21	5	18.0	<0.00067	0.000721	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-27 @ 5' (40.477233 / -104.448751)	08/31/21	5	21.1	<0.00067	0.000721	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
SS-32 @ 0.25' (40.477290 / -104.448670)	08/31/21	0.25	12.3	0.122*	0.133*	0.012	0.00198	0.00365	0.000915	0.000519	<0.00067	0.00081	0.000446	<0.00067	0.0384	0.000351	0.0165*	0.00398
SS-33 @ 0.25' (40.477378 / -104.448801)	08/31/21	0.25	4.2	0.0276*	0.0411*	0.00284	<0.00067	0.000484	0.000588	0.000347	<0.00067	0.0031	<0.00067	<0.00067	0.00882	<0.00067	0.00282	0.00108
SS-34 @ 0.25' (40.477250 / -104.448950)	08/31/21	0.25	4.0	0.000912	0.00148	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000497	<0.00067	<0.00067	0.000852	<0.00067	<0.00067	<0.00067
SS-35 @ 0.25' (40.477167 / -104.448789)	08/31/21	0.25	3.5	0.00556	0.00901	<0.00067	<0.00067	<0.00067	0.00114	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Stockpile-01 @ 0.25' (40.477208 / -104.448681)	08/31/21	0.25	5.2	0.093*	0.114*	0.00603	0.000923	0.000947	0.001700	0.00172	<0.00067	0.00735	<0.00067	0.00104	0.0197	0.000998	0.0235*	0.00274
SS-36 @ 0.25-0.5' (40.477289 / -104.448671)	09/01/21	0.25-0.5	1.2	0.00191	0.00283	<0.00067	<0.00067	<0.00067	0.00033	<0.00067	<0.00067	0.0007	<0.00067	<0.00067	0.00101	<0.00067	<0.00067	<0.00067
Stockpile-02 @ 0.25-0.5' (40.477208 / -104.448681)	09/01/21	0.25-0.5	3.2	0.00182	0.00265	<0.00067	<0.00067	<0.00067	0.000287	0.000332	<0.00067	0.000328	<0.00067	<0.00067	0.000673	<0.00067	<0.00067	<0.00067
COGCC = Colorado Oil and Gas Conservation Commission PID - Photoionization Detector mg/kg = milligrams per kilogram ppm-v = parts per million by volume MDL - Minimum Detection Limit Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory MDL and/or reporting limit. Note: Values presented in BOLD contained concentrations exceeding COGCC Table 915-1 Regulatory Limits																		

TABLE 4
METAL ANALYTICAL RESULTS SUMMARY
WELLS RANCH AA #21-04
WELLHEAD RELEASE
40.477227 / -104.448797
NW1/4 NW1/4 SEC.21 T6N R35W 6PM
WELD COUNTY, COLORADO
API # 05-123-26814
SPILL ID 480576

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Hexavalent Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
COGCC Table 915-1 Residential Screening Levels			0.68***	15,000	71	0.3**	3,100	400	1,500	390	390	23,000
COGCC Table 915-1 Protection of Groundwater Soil Screening Levels			0.29***	82	0.38	0.00067**	46	14	26	0.26	0.8	370
Local Clean-Up Level (1.25*Background)			1.96***	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SS-13 @ 4' (40.477346 / -104.448760)	08/26/21	4	2.12	51.1	0.0710	<0.244	3.26	4.04	3.4	0.191	0.0137	16.8
SS-14 @ 4.5' (40.477321 / -104.448726)	08/26/21	4.5	1.70	68.4	0.0893	<0.244	3.66	4.42	3.6	0.187	0.018	17.8
SS-15 @ 4.5' (40.477287 / -104.448724)	08/26/21	4.5	1.34	56.8	0.0766	<0.244	3.26	5.07	3.36	0.174	0.0138	15.9
SS-16 @ 4.5' (40.477256 / -104.448745)	08/26/21	4.5	1.46	64.7	0.0764	<0.249	3.13	4.09	3.27	0.164	0.0122	15.7
SS-17 @ 4.5' (40.477255 / -104.448768)	08/26/21	4.5	1.47	47.7	0.186	<0.25	3.39	4.1	3.42	0.116	0.0267	16.9
SS-19 @ 4.5' (40.477233 / -104.448851)	08/26/21	4.5	1.53	33	0.0559	<0.244	2.64	3.38	2.76	0.11	0.0103	14.4
SS-20 @ 4.5' (40.477240 / -104.448899)	08/26/21	4.5	1.83	38.5	0.0809	<0.245	3.48	4.09	3.47	0.103	0.0129	16.5
SS-21 @ 4.5' (40.477281 / -104.448888)	08/26/21	4.5	1.97	30.9	0.0705	<0.244	3.05	5.29	3.27	<0.103	0.0094	15.2
SS-22 @ 4.5' (40.477311 / -104.448849)	08/26/21	4.5	1.65	34.2	0.0567	<0.244	2.44	3.4	2.61	0.126	0.007	13.5
SS-23 @ 4.5' (40.477340 / -104.448813)	08/26/21	4.5	1.55	36.8	0.0528	<0.244	2.77	3.33	2.9	0.149	0.0103	14.2
FS-01 @ 5.5' (40.477324 / -104.448779)	08/26/21	5.5	1.77	35	0.593+	<0.251	2.83	3.78	3.15	<0.103	0.011	15.2
FS-02 @ 5.5' (40.477304 / -104.44882)	08/26/21	5.5	2.36	104*	0.139	<0.244	5.31	6.83	6.03	0.171	0.0284	27
FS-03 @ 5.5' (40.477262 / -104.448868)	08/26/21	5.5	2.53	239*	0.197	<0.488	8.72	8.86	8.34	0.208	0.0456	39.7
FS-04 @ 5.5' (40.477281 / -104.448755)	08/26/21	5.5	1.84	61.9	0.0771	<0.251	3.84	5.54	4.2	0.185	0.0146	19.8
FS-06 @ 6.5' (40.477243 / -104.448785)	08/31/21	6.5	1.76	74	0.102	<0.244	4.1	5.54	4.36	0.168	0.0226	22
SS-24 @ 5' (40.477225 / -104.448812)	08/31/21	5	1.73	83.3*	0.0773	<0.244	3.49	4.77	3.27	0.147	0.014	16.4
SS-25 @ 5' (40.477219 / -104.448793)	08/31/21	5	1.88	95.1*	0.101	<0.244	4.58	6.02	4.63	0.159	0.019	22.3
SS-26 @ 5' (40.477219 / -104.448766)	08/31/21	5	2.05	42.6	0.109	<0.244	3.65	4.31	3.59	0.198	0.0158	18
SS-27 @ 5' (40.477233 / -104.448751)	08/31/21	5	1.78	39.2	0.0735	<0.246	3.64	4.58	3.83	0.189	0.0143	18.6
SS-32 @ 0.25' (40.477290 / -104.448670)	08/31/21	0.25	1.49	92.4*	0.0825	<0.244	3.79	4.04	3.3	0.155	0.0116	17.1
SS-33 @ 0.25' (40.477378 / -104.448801)	08/31/21	0.25	1.84	173*	0.119	<0.488	6.59	5.87	4.04	0.246	0.0219	31.1
SS-34 @ 0.25' (40.477250 / -104.448950)	08/31/21	0.25	3.59	48.8	0.137	<0.252	7.6	11.2	6.7	0.242	0.0272	35.3
SS-35 @ 0.25' (40.477167 / -104.448789)	08/31/21	0.25	1.62	175*	0.078	<0.488	4.29	6.79	2.99	0.227	0.0139	23.6

TABLE 4
METAL ANALYTICAL RESULTS SUMMARY
WELLS RANCH AA #21-04
WELLHEAD RELEASE
40.477227 / -104.448797
NW1/4 NW1/4 SEC.21 T6N R35W 6PM
WELD COUNTY, COLORADO
API # 05-123-26814
SPILL ID 480576

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Hexavalent Chromium (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
COGCC Table 915-1 Residential Screening Levels			0.68***	15,000	71	0.3**	3,100	400	1,500	390	390	23,000
COGCC Table 915-1 Protection of Groundwater Soil Screening Levels			0.29***	82	0.38	0.00067**	46	14	26	0.26	0.8	370
Local Clean-Up Level (1.25*Background)			1.96***	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Stockpile-01 @ 0.25' (40.477208 / -104.448681)	08/31/21	0.25	1.96	1380*	0.172	<0.502	8.62	5.94	5.23	0.317*	0.0319	38.3
SS-36 @ 0.25-0.5' (40.477289 / -104.448671)	09/01/21	0.25-0.5	1.61	42.7	0.115	<2.48	5.37	4.83	3.82	0.219	0.0194	27.5
Stockpile-02 @ 0.25-0.5' (40.477208 / -104.448681)	09/01/21	0.25-0.5	1.65	93*	0.116	<1.22	5.6	9.5	3.48	0.191	0.0186	26.2
Background-01 @ 5.5' (40.477100 / -104.448725)	09/07/21	5.5	1.57	45.8	0.0679	<0.244	2.77	3.36	3.19	<0.103	0.0134	14.7
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit or minimum detection levels. Values presented in BOLD contained concentrations exceeding applicable COGCC Table 915-1 Regulatory Limits Values presented in BOLD+* contained concentrations exceeding COGCC Table 915-1 Protection of Groundwater Soil Screening Levels **Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg. ***Arsenic is naturally occurring in Colorado. Local background (1.96 mg/kg) is 1.25*Background (1.57 mg/kg)												

ATTACHMENT A

Photolog

Wells Ranch AA #21-04
API # 05-123-26814
Spill ID 480576

Assessment & Excavation Photolog
August/September 2021



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



Initial Soil Removal/Assessment – 08/25/21



Looking northwest
Residual petroleum hydrocarbon staining and odor observed
adjacent to wellhead – limited hydrovac excavation completed
Additional soil removal coordinated

Looking northwest
Surficial soil removal and waste characterization sampling
completed
Residual petroleum hydrocarbon staining and odor observed
Additional soil removal coordinated



Source Excavation / Confirmation Soil Sampling – 08/26/21 – 09/01/21



← Looking south at wellhead
Looking southwest at wellhead →

Excavation extended approximately 5.5-6.5' below ground surface

Residual petroleum hydrocarbon staining/odor removed

Confirmation soil samples collected following additional soil removal



Source Excavation / Confirmation Soil Sampling – 08/26/21 – 09/01/21



Looking south-southwest→
Stockpile removed –
confirmation sample collected

←Looking northeast

Limited backfilling completed
based on partial analytical
receipt

No residual petroleum
hydrocarbon staining and
odor observed



←Looking south

Limited backfilling completed
based on partial analytical
receipt

No residual petroleum
hydrocarbon staining and
odor observed

ATTACHMENT B

Laboratory Analytical Reports



September 02, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Wells Ranch AA #21-04

Project Number - [none]

Attached are your analytical results for Noble - Wells Ranch AA #21-04 received by Origins Laboratory, Inc. August 26, 2021. This project is associated with Origins project number Y108546-01.

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 - Wells Ranch AA #21-04

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS-01@5.5'	Y108546-01	Soil	August 26, 2021 12:30	08/26/2021 16:49
FS-02@5.5'	Y108546-02	Soil	August 26, 2021 12:31	08/26/2021 16:49
FS-03@5.5'	Y108546-03	Soil	August 26, 2021 12:32	08/26/2021 16:49
FS-04@5.5'	Y108546-04	Soil	August 26, 2021 12:33	08/26/2021 16:49
SS-13@4'	Y108546-05	Soil	August 26, 2021 12:38	08/26/2021 16:49
SS-14@4.5'	Y108546-06	Soil	August 26, 2021 12:40	08/26/2021 16:49
SS-15@4.5'	Y108546-07	Soil	August 26, 2021 12:42	08/26/2021 16:49
SS-16@4.5'	Y108546-08	Soil	August 26, 2021 12:44	08/26/2021 16:49
SS-17@4.5'	Y108546-09	Soil	August 26, 2021 12:46	08/26/2021 16:49
SS-19@4.5'	Y108546-10	Soil	August 26, 2021 12:56	08/26/2021 16:49
SS-20@4.5'	Y108546-11	Soil	August 26, 2021 12:58	08/26/2021 16:49
SS-21@4.5'	Y108546-12	Soil	August 26, 2021 13:00	08/26/2021 16:49
SS-22@4.5'	Y108546-13	Soil	August 26, 2021 13:02	08/26/2021 16:49
SS-23@4.5'	Y108546-14	Soil	August 26, 2021 13:04	08/26/2021 16:49

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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 - Wells Ranch AA #21-04

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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 - Wells Ranch AA #21-04

www.originslaboratory.com

page 1 of 2

ORIGINS
LABORATORY, INC

Client: Eagle Environmental Consulting
Address: 8000 W 44th Ave, Wheat Ridge, CO, 80033
Telephone Number: 303-433-0479
Email Address: mc23@eagle-env.com

Project Manager: Martin Eckert III
Project Name: Wells Ranch AA #21-04
Project Number:
Samples Collected By: BULGL

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil		
FS-01 @ 5.5'	8/26/20	1230	2	X					X	X X X X X	EC SAR pH = 1
FS-02 @ 5.5'		1231	1								Scheduled paste
FS-03 @ 5.5'		1232									prep
FS-04 @ 5.5'		1233									
SS-13 @ 4'		1238									
SS-14 @ 4.5'		1240									
SS-15 @ 4.5'		1242									
SS-16 @ 4.5'		1244									
SS-17 @ 4.5'		1246									
SS-18 @ 4.5'		1256									
Relinquished By: <u>MPZ</u>	Date: <u>8/26/21</u>	Time: <u>1817</u>		Received By: <u>MPZ</u>	Date: <u>8/30/21</u>	Time: <u>16:49</u>		Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard			
Relinquished By:	Date:	Time:		Received By:	Date:	Time:					

Date Results Needed: N/A

Temp Received: 4.1

QA 415675213

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Wells Ranch AA #21-04

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 7108546

Client: Eagle

Client Project ID: Wells Ranch AA 21-04

Checklist Completed by: SG

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

Date/time completed: 8/26/21

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.1 °C / _____ °C / _____ °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<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)

Date/Time Reviewed 8/26/21

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Wells Ranch AA #21-04

FS-01@5.5'

8/26/2021 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.221	0.201	mg/L	1	B1H3001	08/30/2021	08/30/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1H2622	08/26/2021	08/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.3 %	50-150	"	"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2627	08/26/2021	08/26/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

FS-01@5.5'

8/26/2021 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-01 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	95.8 %		70-130			B1H26 27	08/26/2021	08/26/2021	
Surrogate: 4-Bromofluorobenzene	98.3 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	3.92		0.499	meq/L	10	[CALC]	08/27/2021	08/27/2021	
Magnesium	2.55		0.823	"	"	"	"	"	
Sodium	4.04		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00326	0.00048	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021	
2-Methylnaphthalene	0.00443	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.0009	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	
Fluorene	0.00178	0.000501	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

FS-01@5.5'

8/26/2021 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	63.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	76 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	71.1 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.12	pH Units	1	B1H2706	08/27/2021	08/27/2021
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SAR by 20B Saturated Paste

SAR	2.24	SAR	1	B1H2712	08/27/2021	08/27/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.05	0.00500	mmhos/cm	1	B1H2709	08/27/2021	08/27/2021
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Total Metals by 6020B

Arsenic	1.77	0.0855	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021
Barium	35	0.042	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

FS-01@5.5'

8/26/2021 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y108546-01 (Soil)

Total Metals by 6020B

Cadmium	0.0593	0.0259	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021	J
Copper	2.83	0.0806	0.25	"	"	"	"	"	
Lead	3.78	0.031	0.25	"	"	"	"	"	
Nickel	3.15	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.011	0.0067	0.25	"	"	"	"	"	J
Zinc	15.2	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.251	0.516	mg/Kg	1	L571770	08/26/2021	08/31/2021	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

FS-02@5.5'

8/26/2021 12:31:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.581	0.200	mg/L	1	B1H3001	08/30/2021	08/30/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1H2622	08/26/2021	08/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2627	08/26/2021	08/26/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"	
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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 - Wells Ranch AA #21-04

FS-02@5.5'

8/26/2021 12:31:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-02 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	96.0 %		70-130			B1H26 27	08/26/2021	08/26/2021	
Surrogate: 4-Bromofluorobenzene	98.5 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	24.1		0.499	meq/L	10	[CALC]	08/27/2021	08/27/2021	
Magnesium	23.7		0.823	"	"	"	"	"	
Sodium	37.4		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00168	0.00048	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021	
2-Methylnaphthalene	0.00239	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.000338	0.000256	0.00067	"	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	
Fluorene	0.000704	0.000501	0.00067	"	"	"	"	"	

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

FS-02@5.5'

8/26/2021 12:31:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-02 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	59.3 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	74.2 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	65.3 %		29-110			"	"	"

pH in Soil by 9045D

pH	7.91			pH Units	1	B1H2706	08/27/2021	08/27/2021
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SAR by 20B Saturated Paste

SAR	7.65			SAR	1	B1H2712	08/27/2021	08/27/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.63		0.00500	mmhos/cm	1	B1H2709	08/27/2021	08/27/2021
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Total Metals by 6020B

Arsenic	2.36	0.0855	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021
Barium	104	0.042	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

FS-02@5.5'

8/26/2021 12:31:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-02 (Soil)

Total Metals by 6020B

Cadmium	0.139	0.0259	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021	J
Copper	5.31	0.0806	0.25	"	"	"	"	"	
Lead	6.83	0.031	0.25	"	"	"	"	"	
Nickel	6.03	0.0633	0.25	"	"	"	"	"	
Selenium	0.171	0.103	0.25	"	"	"	"	"	J
Silver	0.0284	0.0067	0.25	"	"	"	"	"	J
Zinc	27	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L571770	08/26/2021	08/31/2021	
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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 - Wells Ranch AA #21-04

FS-03@5.5'

8/26/2021 12:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.637	0.199	mg/L	1	B1H3001	08/30/2021	08/30/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1H2622	08/26/2021	08/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	92.0 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	0.00378	0.00200	mg/kg	1	B1H2627	08/26/2021	08/26/2021	
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.415	0.200	"	"	"	"	"	
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.0 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

FS-03@5.5'

8/26/2021 12:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-03 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	98.3 %	70-130	B1H26 27	08/26/2021	08/26/2021
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Metals by Saturated Paste

Calcium	24.1	0.499	meq/L	10	[CALC]	08/27/2021	08/27/2021
Magnesium	19.0	0.823	"	"	"	"	"
Sodium	30.5	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.00579	0.00048	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021
2-Methylnaphthalene	0.00776	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	0.00112	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"
Fluorene	0.00296	0.000501	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

FS-03@5.5'

8/26/2021 12:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-03 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021
Naphthalene	0.00101	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	60.2 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	72.3 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	66.6 %		29-110			"	"	"

pH in Soil by 9045D

pH	7.83			pH Units	1	B1H2706	08/27/2021	08/27/2021
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SAR by 20B Saturated Paste

SAR	6.57			SAR	1	B1H2712	08/27/2021	08/27/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.57		0.00500	mmhos/cm	1	B1H2709	08/27/2021	08/27/2021
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Total Metals by 6020B

Arsenic	2.53	0.0855	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021
Barium	239	0.042	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

FS-03@5.5'

8/26/2021 12:32:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-03 (Soil)

Total Metals by 6020B

Cadmium	0.197	0.0259	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021	J
Copper	8.72	0.0806	0.25	"	"	"	"	"	
Lead	8.86	0.031	0.25	"	"	"	"	"	
Nickel	8.34	0.0633	0.25	"	"	"	"	"	
Selenium	0.208	0.103	0.25	"	"	"	"	"	J
Silver	0.0456	0.0067	0.25	"	"	"	"	"	J
Zinc	39.7	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L571770	08/26/2021	08/31/2021	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

FS-04@5.5'

8/26/2021 12:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.219	0.199	mg/L	1	B1H3001	08/30/2021	08/30/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1H2622	08/26/2021	08/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.6 %	50-150	"	"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2627	08/26/2021	08/26/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

FS-04@5.5'

8/26/2021 12:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-04 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	95.7 %		70-130			B1H26 27	08/26/2021	08/26/2021	
Surrogate: 4-Bromofluorobenzene	99.0 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	6.57		0.499	meq/L	10	[CALC]	08/27/2021	08/27/2021	
Magnesium	4.15		0.823	"	"	"	"	"	
Sodium	5.47		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

FS-04@5.5'

8/26/2021 12:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-04 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	62.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	80.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	68.9 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.07	pH Units	1	B1H2706	08/27/2021	08/27/2021
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SAR by 20B Saturated Paste

SAR	2.36	SAR	1	B1H2712	08/27/2021	08/27/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.59	0.00500	mmhos/cm	1	B1H2709	08/27/2021	08/27/2021
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Total Metals by 6020B

Arsenic	1.84	0.0855	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

FS-04@5.5'

8/26/2021 12:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-04 (Soil)

Total Metals by 6020B

Barium	61.9	0.042	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021	
Cadmium	0.0771	0.0259	0.25	"	"	"	"	"	J
Copper	3.84	0.0806	0.25	"	"	"	"	"	
Lead	5.54	0.031	0.25	"	"	"	"	"	
Nickel	4.2	0.0633	0.25	"	"	"	"	"	
Selenium	0.185	0.103	0.25	"	"	"	"	"	J
Silver	0.0146	0.0067	0.25	"	"	"	"	"	J
Zinc	19.8	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.251	0.515	mg/Kg	1	L571770	08/26/2021	08/31/2021	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-13@4'

8/26/2021 12:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.358	0.199	mg/L	1	B1H3001	08/30/2021	08/30/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1H2622	08/26/2021	08/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	75.5 %	50-150	"	"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2627	08/26/2021	08/26/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-13@4'

8/26/2021 12:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-05 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	95.7 %		70-130			B1H26 27	08/26/2021	08/26/2021	
Surrogate: 4-Bromofluorobenzene	98.7 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	3.09		0.499	meq/L	10	[CALC]	08/27/2021	08/27/2021	
Magnesium	2.14		0.823	"	"	"	"	"	
Sodium	2.77		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.000849	0.00048	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021	
2-Methylnaphthalene	0.00124	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.000259	0.000256	0.00067	"	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	
Fluorene	0.000637	0.000501	0.00067	"	"	"	"	"	J

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-13@4'

8/26/2021 12:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-05 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	64 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	78.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	70 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.18	pH Units	1	B1H2706	08/27/2021	08/27/2021
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SAR by 20B Saturated Paste

SAR	1.71	SAR	1	B1H2712	08/27/2021	08/27/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.822	0.00500	mmhos/cm	1	B1H2709	08/27/2021	08/27/2021
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Total Metals by 6020B

Arsenic	2.12	0.0855	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021
Barium	51.1	0.042	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-13@4'

8/26/2021 12:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y108546-05 (Soil)

Total Metals by 6020B

Cadmium	0.071	0.0259	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021	J
Copper	3.26	0.0806	0.25	"	"	"	"	"	
Lead	4.04	0.031	0.25	"	"	"	"	"	
Nickel	3.4	0.0633	0.25	"	"	"	"	"	
Selenium	0.191	0.103	0.25	"	"	"	"	"	J
Silver	0.0137	0.0067	0.25	"	"	"	"	"	J
Zinc	16.8	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.501	mg/Kg	1	L571770	08/26/2021	08/31/2021	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-14@4.5'

8/26/2021 12:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.443	0.201	mg/L	1	B1H3001	08/30/2021	08/30/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1H2622	08/26/2021	08/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	76.8 %	50-150	"	"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2621	08/26/2021	08/26/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	0.00368	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	0.00718	0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130	"	"	"	"	"	
Surrogate: Toluene-d8	96.0 %	70-130	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-14@4.5'

8/26/2021 12:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-06 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	99.5 %	70-130	B1H26 21	08/26/2021	08/26/2021
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Metals by Saturated Paste

Calcium	5.70	0.499	meq/L	10	[CALC]	08/27/2021	08/27/2021
Magnesium	4.00	0.823	"	"	"	"	"
Sodium	5.18	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	ND	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"
Fluorene	ND	0.000501	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Wells Ranch AA #21-04

SS-14@4.5'

8/26/2021 12:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-06 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	66.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	83.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	76.1 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.05			pH Units	1	B1H2706	08/27/2021	08/27/2021	
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SAR by 20B Saturated Paste

SAR	2.35			SAR	1	B1H2712	08/27/2021	08/27/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.39		0.00500	mmhos/cm	1	B1H2709	08/27/2021	08/27/2021	
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Total Metals by 6020B

Arsenic	1.7	0.0855	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021	
Barium	68.4	0.042	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-14@4.5'

8/26/2021 12:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-06 (Soil)

Total Metals by 6020B

Cadmium	0.0893	0.0259	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021	J
Copper	3.66	0.0806	0.25	"	"	"	"	"	
Lead	4.42	0.031	0.25	"	"	"	"	"	
Nickel	3.6	0.0633	0.25	"	"	"	"	"	
Selenium	0.187	0.103	0.25	"	"	"	"	"	J
Silver	0.018	0.0067	0.25	"	"	"	"	"	J
Zinc	17.8	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L571770	08/26/2021	08/31/2021	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-15@4.5'

8/26/2021 12:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.240	0.200	mg/L	1	B1H3001	08/30/2021	08/30/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1H2622	08/26/2021	08/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.0 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2621	08/26/2021	08/26/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	0.00264	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.7 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-15@4.5'

8/26/2021 12:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-07 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	99.2 %	70-130	B1H26 21	08/26/2021	08/26/2021
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Metals by Saturated Paste

Calcium	2.17	0.499	meq/L	10	[CALC]	08/27/2021	08/27/2021
Magnesium	1.48	0.823	"	"	"	"	"
Sodium	2.37	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	ND	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"
Fluorene	ND	0.000501	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-15@4.5'

8/26/2021 12:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-07 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	59.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	80.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	74.6 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.22			pH Units	1	B1H2706	08/27/2021	08/27/2021	
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SAR by 20B Saturated Paste

SAR	1.75			SAR	1	B1H2712	08/27/2021	08/27/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.622		0.00500	mmhos/cm	1	B1H2709	08/27/2021	08/27/2021	
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Total Metals by 6020B

Arsenic	1.34	0.0855	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021	
Barium	56.8	0.042	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-15@4.5'

8/26/2021 12:42:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-07 (Soil)

Total Metals by 6020B

Cadmium	0.0766	0.0259	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021	J
Copper	3.26	0.0806	0.25	"	"	"	"	"	
Lead	5.07	0.031	0.25	"	"	"	"	"	
Nickel	3.36	0.0633	0.25	"	"	"	"	"	
Selenium	0.174	0.103	0.25	"	"	"	"	"	J
Silver	0.0138	0.0067	0.25	"	"	"	"	"	J
Zinc	15.9	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L571770	08/26/2021	08/31/2021	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-16@4.5'

8/26/2021 12:44:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.198	0.198	mg/L	1	B1H3002	08/30/2021	08/30/2021	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1H2628	08/26/2021	08/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	75.6 %	50-150	"	"	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2621	08/26/2021	08/26/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	0.00326	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	0.00660	0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	100 %	70-130	"	"	"	"	"
Surrogate: Toluene-d8	96.4 %	70-130	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-16@4.5'

8/26/2021 12:44:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-08 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	98.4 %	70-130	B1H26 21	08/26/2021	08/26/2021
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Metals by Saturated Paste

Calcium	1.21	0.499	meq/L	10	[CALC]	08/27/2021	08/27/2021
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.54	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.000489	0.00048	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021	J
2-Methylnaphthalene	0.00119	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	
Fluorene	ND	0.000501	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-16@4.5'

8/26/2021 12:44:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-08 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021	
Naphthalene	0.000479	0.000467	0.00067	"	"	"	"	"	J
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	59.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	78.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	74.1 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.37			pH Units	1	B1H2706	08/27/2021	08/27/2021	
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SAR by 20B Saturated Paste

SAR	1.57			SAR	1	B1H2712	08/27/2021	08/27/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.351		0.00500	mmhos/cm	1	B1H2709	08/27/2021	08/27/2021	
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Total Metals by 6020B

Arsenic	1.46	0.0855	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021	
Barium	64.7	0.042	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-16@4.5'

8/26/2021 12:44:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-08 (Soil)

Total Metals by 6020B

Cadmium	0.0764	0.0259	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021	J
Copper	3.13	0.0806	0.25	"	"	"	"	"	
Lead	4.09	0.031	0.25	"	"	"	"	"	
Nickel	3.27	0.0633	0.25	"	"	"	"	"	
Selenium	0.164	0.103	0.25	"	"	"	"	"	J
Silver	0.0122	0.0067	0.25	"	"	"	"	"	J
Zinc	15.7	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.249	0.511	mg/Kg	1	L571770	08/26/2021	08/31/2021	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-17@4.5'

8/26/2021 12:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.202	mg/L	1	B1H3002	08/30/2021	08/30/2021	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1H2628	08/26/2021	08/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.6 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2621	08/26/2021	08/27/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	0.00244	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130	"	"	"	"	"	"
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-17@4.5'

8/26/2021 12:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-09 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	96.2 %		70-130			B1H26 21	08/26/2021	08/27/2021	
Surrogate: 4-Bromofluorobenzene	99.0 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	2.37		0.499	meq/L	10	[CALC]	08/27/2021	08/27/2021	
Magnesium	1.29		0.823	"	"	"	"	"	
Sodium	2.24		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-17@4.5'

8/26/2021 12:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-09 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	59 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	63.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	70.2 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.18	pH Units	1	B1H2706	08/27/2021	08/27/2021
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SAR by 20B Saturated Paste

SAR	1.66	SAR	1	B1H2712	08/27/2021	08/27/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.611	0.00500	mmhos/cm	1	B1H2709	08/27/2021	08/27/2021
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Total Metals by 6020B

Arsenic	1.47	0.0855	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-17@4.5'

8/26/2021 12:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-09 (Soil)

Total Metals by 6020B

Barium	47.7	0.042	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021	
Cadmium	0.186	0.0259	0.25	"	"	"	"	"	J
Copper	3.39	0.0806	0.25	"	"	"	"	"	
Lead	4.1	0.031	0.25	"	"	"	"	"	
Nickel	3.42	0.0633	0.25	"	"	"	"	"	
Selenium	0.116	0.103	0.25	"	"	"	"	"	J
Silver	0.0267	0.0067	0.25	"	"	"	"	"	J
Zinc	16.9	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.25	0.514	mg/Kg	1	L571770	08/26/2021	08/31/2021	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-19@4.5'

8/26/2021 12:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-10 (Soil)

Boron (DTPA Sorbitol)

Boron	0.263	0.202	mg/L	1	B1H3002	08/30/2021	08/30/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1H2628	08/26/2021	08/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.8 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2621	08/26/2021	08/27/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	0.00244	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.7 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-19@4.5'

8/26/2021 12:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-10 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	98.6 %	70-130	B1H26 21	08/26/2021	08/27/2021
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Metals by Saturated Paste

Calcium	11.9	0.499	meq/L	10	[CALC]	08/27/2021	08/27/2021
Magnesium	6.45	0.823	"	"	"	"	"
Sodium	4.38	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	ND	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"
Fluorene	ND	0.000501	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-19@4.5'

8/26/2021 12:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-10 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	66.7 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	82.9 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	82 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.05			pH Units	1	B1H2706	08/27/2021	08/27/2021
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SAR by 20B Saturated Paste

SAR	1.44			SAR	1	B1H2712	08/27/2021	08/27/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.90		0.00500	mmhos/cm	1	B1H2709	08/27/2021	08/27/2021
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Total Metals by 6020B

Arsenic	1.53	0.0855	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021
Barium	33	0.042	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-19@4.5'

8/26/2021 12:56:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y108546-10 (Soil)

Total Metals by 6020B

Cadmium	0.0559	0.0259	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021	J
Copper	2.64	0.0806	0.25	"	"	"	"	"	
Lead	3.38	0.031	0.25	"	"	"	"	"	
Nickel	2.76	0.0633	0.25	"	"	"	"	"	
Selenium	0.11	0.103	0.25	"	"	"	"	"	J
Silver	0.0103	0.0067	0.25	"	"	"	"	"	J
Zinc	14.4	0.534	2.5	"	"	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L571771	08/26/2021	08/31/2021	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-20@4.5'

8/26/2021 12:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-11 (Soil)

Boron (DTPA Sorbitol)

Boron	0.238	0.198	mg/L	1	B1H3002	08/30/2021	08/30/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1H2628	08/26/2021	08/26/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.9 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2621	08/26/2021	08/27/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	0.00312	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.8 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-20@4.5'

8/26/2021 12:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-11 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	98.4 %	70-130	B1H26 21	08/26/2021	08/27/2021
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Metals by Saturated Paste

Calcium	2.10	0.499	meq/L	10	[CALC]	08/27/2021	08/27/2021
Magnesium	1.56	0.823	"	"	"	"	"
Sodium	4.46	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	ND	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"
Fluorene	ND	0.000501	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-20@4.5'

8/26/2021 12:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-11 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	65.4 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	84.9 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	79.8 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.25			pH Units	1	B1H2706	08/27/2021	08/27/2021
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SAR by 20B Saturated Paste

SAR	3.30			SAR	1	B1H2712	08/27/2021	08/27/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.848		0.00500	mmhos/cm	1	B1H2709	08/27/2021	08/27/2021
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Total Metals by 6020B

Arsenic	1.83	0.0855	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021
Barium	38.5	0.042	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-20@4.5'

8/26/2021 12:58:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-11 (Soil)

Total Metals by 6020B

Cadmium	0.0809	0.0259	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021	J
Copper	3.48	0.0806	0.25	"	"	"	"	"	
Lead	4.09	0.031	0.25	"	"	"	"	"	
Nickel	3.47	0.0633	0.25	"	"	"	"	"	
Selenium	0.103	0.103	0.25	"	"	"	"	"	J
Silver	0.0129	0.0067	0.25	"	"	"	"	"	J
Zinc	16.5	0.534	2.5	"	"	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.245	0.503	mg/Kg	1	L571771	08/26/2021	08/31/2021	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-21@4.5'

8/26/2021 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-12 (Soil)

Boron (DTPA Sorbitol)

Boron	0.499	0.199	mg/L	1	B1H3002	08/30/2021	08/30/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1H2628	08/26/2021	08/27/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	71.0 %	50-150	"	"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2621	08/26/2021	08/27/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"	"	"	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-21@4.5'

8/26/2021 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-12 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	95.8 %		70-130			B1H26 21	08/26/2021	08/27/2021	
Surrogate: 4-Bromofluorobenzene	99.0 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	21.9		0.499	meq/L	10	[CALC]	08/27/2021	08/27/2021	
Magnesium	14.1		0.823	"	"	"	"	"	
Sodium	9.31		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-21@4.5'

8/26/2021 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-12 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	60.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	76.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	75.9 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.93	pH Units	1	B1H2706	08/27/2021	08/27/2021
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SAR by 20B Saturated Paste

SAR	2.20	SAR	1	B1H2712	08/27/2021	08/27/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.44	0.00500	mmhos/cm	1	B1H2709	08/27/2021	08/27/2021
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Total Metals by 6020B

Arsenic	1.97	0.0855	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-21@4.5'

8/26/2021 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-12 (Soil)

Total Metals by 6020B

Barium	30.9	0.042	0.25	mg/Kg	5	L571643	08/30/2021	08/31/2021	
Cadmium	0.0705	0.0259	0.25	"	"	"	"	"	J
Copper	3.05	0.0806	0.25	"	"	"	"	"	
Lead	5.29	0.031	0.25	"	"	"	"	"	
Nickel	3.27	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.0094	0.0067	0.25	"	"	"	"	"	J
Zinc	15.2	0.534	2.5	"	"	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L571771	08/26/2021	08/31/2021	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-22@4.5'

8/26/2021 1:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-13 (Soil)

Boron (DTPA Sorbitol)

Boron	0.341	0.200	mg/L	1	B1H3002	08/30/2021	08/30/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1H2628	08/26/2021	08/27/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.8 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2621	08/26/2021	08/27/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	
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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 - Wells Ranch AA #21-04

SS-22@4.5'

8/26/2021 1:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-13 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	95.6 %	70-130	B1H26 21	08/26/2021	08/27/2021
Surrogate: 4-Bromofluorobenzene	98.1 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	10.9	0.499	meq/L	10	[CALC]	08/27/2021	08/27/2021
Magnesium	7.18	0.823	"	"	"	"	"
Sodium	6.68	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	ND	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-22@4.5'

8/26/2021 1:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-13 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	57.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	73 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	71.5 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.01	pH Units	1	B1H2706	08/27/2021	08/27/2021
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SAR by 20B Saturated Paste

SAR	2.22	SAR	1	B1H2712	08/27/2021	08/27/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.18	0.00500	mmhos/cm	1	B1H2709	08/27/2021	08/27/2021
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Total Metals by 6020B

Arsenic	1.65	0.0855	0.25	mg/Kg	5	L571644	08/30/2021	08/31/2021
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-22@4.5'

8/26/2021 1:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-13 (Soil)

Total Metals by 6020B

Barium	34.2	0.042	0.25	mg/Kg	5	L571644	08/30/2021	08/31/2021	
Cadmium	0.0567	0.0259	0.25	"	"	"	"	"	J
Copper	2.44	0.0806	0.25	"	"	"	"	"	
Lead	3.4	0.031	0.25	"	"	"	"	"	
Nickel	2.61	0.0633	0.25	"	"	"	"	"	
Selenium	0.126	0.103	0.25	"	"	"	"	"	J
Silver	0.007	0.0067	0.25	"	"	"	"	"	J
Zinc	13.5	0.534	2.5	"	"	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.244	0.501	mg/Kg	1	L571771	08/26/2021	08/31/2021	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-23@4.5'

8/26/2021 1:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-14 (Soil)

Boron (DTPA Sorbitol)

Boron	0.378	0.199	mg/L	1	B1H3002	08/30/2021	08/30/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	50.0	mg/kg	1	B1H2622	08/26/2021	08/27/2021	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.2 %	50-150	"	"	"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H2621	08/26/2021	08/27/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"	"	"	
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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 - Wells Ranch AA #21-04

SS-23@4.5'

8/26/2021 1:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108546-14 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	95.1 %	70-130	B1H26 21	08/26/2021	08/27/2021
Surrogate: 4-Bromofluorobenzene	98.8 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	4.56	0.499	meq/L	10	[CALC]	08/27/2021	08/27/2021
Magnesium	3.25	0.823	"	"	"	"	"
Sodium	5.05	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	ND	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-23@4.5'

8/26/2021 1:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-14 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L571692	08/30/2021	08/30/2021
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	62.2 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	74.7 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	76.2 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.15			pH Units	1	B1H2706	08/27/2021	08/27/2021
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SAR by 20B Saturated Paste

SAR	2.56			SAR	1	B1H2712	08/27/2021	08/27/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.28		0.00500	mmhos/cm	1	B1H2709	08/27/2021	08/27/2021
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Total Metals by 6020B

Arsenic	1.55	0.0855	0.25	mg/Kg	5	L571644	08/30/2021	08/31/2021
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-23@4.5'

8/26/2021 1:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108546-14 (Soil)

Total Metals by 6020B

Barium	36.8	0.042	0.25	mg/Kg	5	L571644	08/30/2021	08/31/2021	
Cadmium	0.0528	0.0259	0.25	"	"	"	"	"	J
Copper	2.77	0.0806	0.25	"	"	"	"	"	
Lead	3.33	0.031	0.25	"	"	"	"	"	
Nickel	2.9	0.0633	0.25	"	"	"	"	"	
Selenium	0.149	0.103	0.25	"	"	"	"	"	J
Silver	0.0103	0.0067	0.25	"	"	"	"	"	J
Zinc	14.2	0.534	2.5	"	"	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L571771	08/26/2021	08/31/2021	
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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 - Wells Ranch AA #21-04

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 B1H2621 - EPA 5030 (soil)										
Blank (B1H2621-BLK1)					Prepared: 08/26/2021 Analyzed: 08/26/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	109		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	94.2		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.4		70-130			

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1H2621 - EPA 5030 (soil)

LCS (B1H2621-BS1)

Prepared: 08/26/2021 Analyzed: 08/26/2021

1,2,4-Trimethylbenzene	0.0419	0.00200	mg/kg	0.0500		83.8	70-130			
Naphthalene	0.0417	0.0100	"	0.0500		83.4	70-130			
1,3,5-Trimethylbenzene	0.0417	0.00200	"	0.0500		83.4	70-130			
Benzene	0.0466	0.00200	"	0.0500		93.2	70-130			
Ethylbenzene	0.0419	0.00200	"	0.0500		83.8	70-130			
m,p-Xylene	0.0882	0.00400	"	0.100		88.2	70-130			
o-Xylene	0.0429	0.00200	"	0.0500		85.9	70-130			
Toluene	0.0434	0.00200	"	0.0500		86.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1H2621 - EPA 5030 (soil)

Matrix Spike (B1H2621-MS1)		Source: Y108525-02			Prepared: 08/26/2021 Analyzed: 08/26/2021					
1,2,4-Trimethylbenzene	0.0442	0.00200	mg/kg	0.0500	ND	88.4	70-130			
Naphthalene	0.0365	0.0100	"	0.0500	ND	73.0	70-130			
1,3,5-Trimethylbenzene	0.0451	0.00200	"	0.0500	ND	90.1	70-130			
Benzene	0.0529	0.00200	"	0.0500	ND	106	70-130			
Ethylbenzene	0.0463	0.00200	"	0.0500	ND	92.6	70-130			
m,p-Xylene	0.0950	0.00400	"	0.100	ND	95.0	70-130			
o-Xylene	0.0465	0.00200	"	0.0500	ND	93.0	70-130			
Toluene	0.0466	0.00200	"	0.0500	ND	93.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.0	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1H2621 - EPA 5030 (soil)										
Matrix Spike Dup (B1H2621-MSD1)		Source: Y108525-02			Prepared: 08/26/2021 Analyzed: 08/26/2021					
1,2,4-Trimethylbenzene	0.0483	0.00200	mg/kg	0.0500	ND	96.6	70-130	8.82	20	
Naphthalene	0.0418	0.0100	"	0.0500	ND	83.5	70-130	13.4	20	
1,3,5-Trimethylbenzene	0.0489	0.00200	"	0.0500	ND	97.8	70-130	8.13	20	
Benzene	0.0559	0.00200	"	0.0500	ND	112	70-130	5.44	20	
Ethylbenzene	0.0496	0.00200	"	0.0500	ND	99.2	70-130	6.97	20	
m,p-Xylene	0.103	0.00400	"	0.100	ND	103	70-130	7.79	20	
o-Xylene	0.0507	0.00200	"	0.0500	ND	101	70-130	8.56	20	
Toluene	0.0496	0.00200	"	0.0500	ND	99.3	70-130	6.36	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Wells Ranch AA #21-04

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 B1H2622 - EPA 3550B										
Blank (B1H2622-BLK1)					Prepared: 08/26/2021 Analyzed: 08/28/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	25.0		84.0	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Wells Ranch AA #21-04

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 B1H2622 - EPA 3550B

LCS (B1H2622-BS1)

Prepared: 08/26/2021 Analyzed: 08/28/2021

Diesel (C10-C28)	1020	50.0	mg/kg	1000		102	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	49		"	50.0		97.3	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1H2622 - EPA 3550B

Matrix Spike (B1H2622-MS1)		Source: Y108525-02			Prepared: 08/26/2021 Analyzed: 08/28/2021					
Diesel (C10-C28)	903	50.0	mg/kg	1000	ND	90.3	70-130			
Residual Range Organics (C28-C40)	887	200	"	1000	ND	88.7	70-130			
Surrogate: o-Terphenyl	44		"	50.0		87.6	50-150			

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1H2622 - EPA 3550B

Matrix Spike Dup (B1H2622-MSD1)		Source: Y108525-02			Prepared: 08/26/2021 Analyzed: 08/28/2021					
Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	70-130	12.5	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130	12.6	35	
Surrogate: o-Terphenyl	39		"	50.0		77.4	50-150			

Origins Laboratory, Inc.



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Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1H2627 - EPA 5030 (soil)										
Blank (B1H2627-BLK1)					Prepared: 08/26/2021 Analyzed: 08/26/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.4	70-130			

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Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1H2627 - EPA 5030 (soil)

LCS (B1H2627-BS1)

Prepared: 08/26/2021 Analyzed: 08/26/2021

1,2,4-Trimethylbenzene	0.0419	0.00200	mg/kg	0.0500		83.8	70-130			
Naphthalene	0.0417	0.0100	"	0.0500		83.4	70-130			
1,3,5-Trimethylbenzene	0.0417	0.00200	"	0.0500		83.4	70-130			
Benzene	0.0466	0.00200	"	0.0500		93.2	70-130			
Ethylbenzene	0.0419	0.00200	"	0.0500		83.8	70-130			
m,p-Xylene	0.0882	0.00400	"	0.100		88.2	70-130			
o-Xylene	0.0429	0.00200	"	0.0500		85.9	70-130			
Toluene	0.0434	0.00200	"	0.0500		86.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

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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 - Wells Ranch AA #21-04

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 B1H2627 - EPA 5030 (soil)

Matrix Spike (B1H2627-MS1)		Source: Y108541-02			Prepared: 08/26/2021 Analyzed: 08/26/2021					
1,2,4-Trimethylbenzene	0.0427	0.00200	mg/kg	0.0500	0.000200	85.0	70-130			
Naphthalene	0.0398	0.0100	"	0.0500	0.00154	76.6	70-130			
1,3,5-Trimethylbenzene	0.0419	0.00200	"	0.0500	0.000160	83.4	70-130			
Benzene	0.0471	0.00200	"	0.0500	ND	94.2	70-130			
Ethylbenzene	0.0494	0.00200	"	0.0500	ND	98.8	70-130			
m,p-Xylene	0.0998	0.00400	"	0.100	ND	99.8	70-130			
o-Xylene	0.0514	0.00200	"	0.0500	ND	103	70-130			
Toluene	0.0464	0.00200	"	0.0500	ND	92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1H2627 - EPA 5030 (soil)										
Matrix Spike Dup (B1H2627-MSD1)		Source: Y108541-02			Prepared: 08/26/2021 Analyzed: 08/26/2021					
1,2,4-Trimethylbenzene	0.0373	0.00200	mg/kg	0.0500	0.000200	74.2	70-130	13.4	20	
Naphthalene	0.0361	0.0100	"	0.0500	0.00154	69.0	70-130	9.91	20	QM-07
1,3,5-Trimethylbenzene	0.0363	0.00200	"	0.0500	0.000160	72.3	70-130	14.2	20	
Benzene	0.0454	0.00200	"	0.0500	ND	90.9	70-130	3.63	20	
Ethylbenzene	0.0424	0.00200	"	0.0500	ND	84.8	70-130	15.3	20	
m,p-Xylene	0.0861	0.00400	"	0.100	ND	86.1	70-130	14.8	20	
o-Xylene	0.0443	0.00200	"	0.0500	ND	88.7	70-130	14.7	20	
Toluene	0.0436	0.00200	"	0.0500	ND	87.2	70-130	6.26	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1H2628 - EPA 3550B										
Blank (B1H2628-BLK1)					Prepared: 08/26/2021 Analyzed: 08/26/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	25.0		91.5	50-150			

Origins Laboratory, Inc.



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Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1H2628 - EPA 3550B

LCS (B1H2628-BS1)

Prepared: 08/26/2021 Analyzed: 08/26/2021

Diesel (C10-C28)	992	50.0	mg/kg	1000		99.2	70-130			
Residual Range Organics (C28-C40)	968	200	"	1000		96.8	70-130			
Surrogate: o-Terphenyl	48		"	50.0		96.6	50-150			

Origins Laboratory, Inc.



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Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1H2628 - EPA 3550B

Matrix Spike (B1H2628-MS1)		Source: Y108541-02			Prepared: 08/26/2021 Analyzed: 08/26/2021					
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130			
Residual Range Organics (C28-C40)	994	200	"	1000	ND	99.4	70-130			
Surrogate: o-Terphenyl	50		"	50.0		100	50-150			

Origins Laboratory, Inc.



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Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1H2628 - EPA 3550B										
Matrix Spike Dup (B1H2628-MSD1)			Source: Y108541-02			Prepared: 08/26/2021 Analyzed: 08/26/2021				
Diesel (C10-C28)	984	50.0	mg/kg	1000	ND	98.4	70-130	4.68	35	
Residual Range Organics (C28-C40)	968	200	"	1000	ND	96.8	70-130	2.68	35	
Surrogate: o-Terphenyl	46		"	50.0		91.2	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 - Wells Ranch AA #21-04

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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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 B1H3001 - Default Prep Metals

Blank (B1H3001-BLK1)

Prepared: 08/30/2021 Analyzed: 08/30/2021

Boron	ND	0.200	mg/L							U
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Batch B1H3002 - Default Prep Metals

Blank (B1H3002-BLK1)

Prepared: 08/30/2021 Analyzed: 08/30/2021

Boron	ND	0.200	mg/L							U
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Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1H2706 - NO PREP										
Duplicate (B1H2706-DUP1)		Source: Y108546-01			Prepared: 08/27/2021 Analyzed: 08/27/2021					
pH	7.93		pH Units		8.12			2.37	25	
Batch B1H2709 - NO PREP										
Blank (B1H2709-BLK1)		Prepared: 08/27/2021 Analyzed: 08/27/2021								
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B1H2709-DUP1)		Source: Y108546-01			Prepared: 08/27/2021 Analyzed: 08/27/2021					
Specific Conductance (EC)	1.06	0.00500	mmhos/cm		1.05			1.58	25	

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8000 W 44th Ave
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Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L571692 - 3550B

MSD (L 96687-MSD-L571692)		Source: Y108546-04			Prepared: 08/30/2021 Analyzed: 08/30/2021					
Acenaphthene	0.125	0.000431	mg/Kg	0.166	<0.000431	75.3	30-130	5.7	30	
Indeno(1,2,3-cd)pyrene	0.162	0.000344	"	0.166	<0.000344	97.5	30-130	11	30	
Fluorene	0.13	0.000501	"	0.166	<0.000501	78.3	30-130	5.5	30	
Fluoranthene	0.137	0.000529	"	0.166	<0.000529	82.5	30-130	9.9	30	
Dibenz(a,h)anthracene	0.167	0.000279	"	0.166	<0.000279	101	30-130	10.7	30	
Chrysene	0.132	0.000256	"	0.166	<0.000256	79.5	30-130	7	30	
Benzo(k)fluoranthene	0.128	0.000486	"	0.166	<0.000486	77.1	30-130	2.3	30	
Benzo(b)fluoranthene	0.144	0.000138	"	0.166	<0.000138	86.7	30-130	14.9	30	
Benzo(a)pyrene	0.14	0.000133	"	0.166	<0.000133	84.3	30-130	7.4	30	
Anthracene	0.136	0.000426	"	0.166	<0.000426	81.9	30-130	6.8	30	
2-Methylnaphthalene	0.117	0.000542	"	0.166	<0.000542	70.4	30-130	6.1	30	
1-Methylnaphthalene	0.119	0.00048	"	0.166	<0.000480	71.6	30-130	6	30	
Pyrene	0.136	0.000387	"	0.166	<0.000387	81.9	30-130	8.4	30	
Benzo(a)anthracene	0.131	0.000441	"	0.166	<0.000441	78.9	30-130	5.4	30	
Naphthalene	0.116	0.000467	"	0.166	<0.000467	69.8	30-130	7.1	30	
Surrogate: 4-Terphenyl-d14	79.7		"	0.331	265	79.7	33-122			
Surrogate: 2-Fluorobiphenyl	67.6		"	0.331	207	67.6	33-115			
Surrogate: Nitrobenzene-d5	76.7		"	0.331	228	76.7	29-110			

MS (L 96687-MS-L571692)		Source: Y108546-04			Prepared: 08/30/2021 Analyzed: 08/30/2021					
Chrysene	0.123	0.000256	mg/Kg	0.166	<0.000256	74	30-130			
Pyrene	0.125	0.000387	"	0.166	<0.000387	75.3	30-130			
Indeno(1,2,3-cd)pyrene	0.145	0.000344	"	0.166	<0.000344	87.3	30-130			
Fluorene	0.123	0.000501	"	0.166	<0.000501	74	30-130			
Dibenz(a,h)anthracene	0.15	0.000279	"	0.166	<0.000279	90.3	30-130			
Naphthalene	0.108	0.000467	"	0.166	<0.000467	65	30-130			
Benzo(k)fluoranthene	0.131	0.000486	"	0.166	<0.000486	78.9	30-130			

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L571692 - 3550B

MS (L 96687-MS-L571692)		Source: Y108546-04			Prepared: 08/30/2021 Analyzed: 08/30/2021					
Benzo(a)pyrene	0.13	0.000133	mg/Kg	0.166	<0.000133	78.3	30-130			
Benzo(a)anthracene	0.124	0.000441	"	0.166	<0.000441	74.6	30-130			
Anthracene	0.127	0.000426	"	0.166	<0.000426	76.5	30-130			
Acenaphthene	0.118	0.000431	"	0.166	<0.000431	71	30-130			
Benzo(b)fluoranthene	0.124	0.000138	"	0.166	<0.000138	74.6	30-130			
Fluoranthene	0.124	0.000529	"	0.166	<0.000529	74.6	30-130			
2-Methylnaphthalene	0.11	0.000542	"	0.166	<0.000542	66.2	30-130			
1-Methylnaphthalene	0.112	0.00048	"	0.166	<0.000480	67.4	30-130			
Surrogate: Nitrobenzene-d5	71.9		"	0.331	228	71.9	29-110			
Surrogate: 4-Terphenyl-d14	73.7		"	0.331	265	73.7	33-122			
Surrogate: 2-Fluorobiphenyl	64.3		"	0.331	207	64.3	33-115			

LCS (LCS-L571692)		Prepared: 08/30/2021 Analyzed: 08/30/2021								
2-Methylnaphthalene	0.11	0.000542	mg/Kg	0.167		65.8	30-130			
Benzo(b)fluoranthene	0.142	0.000138	"	0.167		85	30-130			
Benzo(a)anthracene	0.125	0.000441	"	0.167		74.8	30-130			
Benzo(k)fluoranthene	0.124	0.000486	"	0.167		74.2	30-130			
Acenaphthene	0.118	0.000431	"	0.167		70.6	30-130			
Chrysene	0.126	0.000256	"	0.167		75.4	30-130			
Dibenz(a,h)anthracene	0.166	0.000279	"	0.167		99.4	30-130			
Fluoranthene	0.127	0.000529	"	0.167		76	30-130			
Fluorene	0.124	0.000501	"	0.167		74.2	30-130			
Indeno(1,2,3-cd)pyrene	0.157	0.000344	"	0.167		94	30-130			
1-Methylnaphthalene	0.112	0.00048	"	0.167		67	30-130			
Anthracene	0.129	0.000426	"	0.167		77.2	30-130			
Pyrene	0.128	0.000387	"	0.167		76.6	30-130			
Naphthalene	0.11	0.000467	"	0.167		65.8	30-130			

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 For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L571692 - 3550B										
LCS (LCS-L571692)					Prepared: 08/30/2021 Analyzed: 08/30/2021					
Benzo(a)pyrene	0.14	0.000133	mg/Kg	0.167		83.8	30-130			
Surrogate: 2-Fluorobiphenyl	69		"	0.333	69		33-115			
Surrogate: 4-Terphenyl-d14	80.4		"	0.333	80.4		33-122			
Surrogate: Nitrobenzene-d5	84.3		"	0.333	84.3		29-110			
LRB (LRB-L571692)					Prepared: 08/30/2021 Analyzed: 08/30/2021					
Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	0.000273	0.00067	"				-			J
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	0.000239	0.00067	"				-			J
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	74.1		"	0.333	74.1		29-110			
Surrogate: 4-Terphenyl-d14	79.5		"	0.333	79.5		33-122			
Surrogate: 2-Fluorobiphenyl	66		"	0.333	66		33-115			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L571643 - 3050B										
MSD (L 96695-MSD-L571643)			Source: Y108546-12		Prepared: 08/30/2021 Analyzed: 08/31/2021					
Nickel	4.96	0.0633	mg/Kg	2.45	3.27	69	75-125	6.4	80	*
Lead	5.99	0.031	"	2.45	5.29	29	75-125	4.9	80	*
Silver	0.525	0.0067	"	0.491	0.0094	107	75-125	4	80	
Selenium	4.21	0.103	"	4.91	<0.103	86	75-125	2.1	80	
Zinc	36.4	0.534	"	24.5	15.2	86	75-125	4.3	80	
Cadmium	0.558	0.0259	"	0.491	0.0705	114	75-125	1.4	80	
Barium	33.6	0.042	"	4.91	30.9	55	75-125	0.8	80	*
Arsenic	3.43	0.0855	"	2.45	1.97	60	75-125	13	80	*
Copper	4.74	0.0806	"	2.45	3.05	69	75-125	10.4	80	*
MS (L 96695-MS-L571643)			Source: Y108546-12		Prepared: 08/30/2021 Analyzed: 08/31/2021					
Lead	5.7	0.031	mg/Kg	2.36	5.29	17	75-125			*
Barium	33.9	0.042	"	4.72	30.9	64	75-125			*
Copper	5.26	0.0806	"	2.36	3.05	94	75-125			
Nickel	5.29	0.0633	"	2.36	3.27	86	75-125			
Selenium	4.3	0.103	"	4.72	<0.103	91	75-125			
Silver	0.504	0.0067	"	0.472	0.0094	107	75-125			
Zinc	38	0.534	"	23.6	15.2	97	75-125			
Cadmium	0.55	0.0259	"	0.472	0.0705	117	75-125			
Arsenic	3.91	0.0855	"	2.36	1.97	82	75-125			
LCS (LCS-L571643)			Prepared: 08/30/2021 Analyzed: 08/31/2021							
Copper	2.48	0.0806	mg/Kg	2.5		99	80-120			
Arsenic	2.43	0.0855	"	2.5		97	80-120			
Cadmium	0.486	0.0259	"	0.5		97	80-120			
Lead	2.51	0.031	"	2.5		100	80-120			
Nickel	2.41	0.0633	"	2.5		96	80-120			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L571643 - 3050B

LCS (LCS-L571643)

Prepared: 08/30/2021 Analyzed: 08/31/2021

Selenium	4.96	0.103	mg/Kg	5		99	80-120			
Silver	0.506	0.0067	"	0.5		101	80-120			
Zinc	24.3	0.534	"	25		97	80-120			
Barium	5.06	0.042	"	5		101	80-120			

LRB (LRB-L571643)

Prepared: 08/30/2021 Analyzed: 08/31/2021

Zinc	ND	2.5	mg/Kg				-			
Silver	ND	0.25	"				-			
Lead	0.0494	0.25	"				-			J
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			

Batch L571644 - 3050B

LCS (LCS-L571644)

Prepared: 08/30/2021 Analyzed: 08/31/2021

Nickel	2.6	0.0633	mg/Kg	2.5		104	80-120			
Arsenic	2.59	0.0855	"	2.5		104	80-120			
Barium	5.15	0.042	"	5		103	80-120			
Cadmium	0.508	0.0259	"	0.5		102	80-120			
Lead	2.56	0.031	"	2.5		102	80-120			
Selenium	4.87	0.103	"	5		97	80-120			
Silver	0.518	0.0067	"	0.5		104	80-120			
Zinc	25.2	0.534	"	25		101	80-120			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L571644 - 3050B										
LCS (LCS-L571644)					Prepared: 08/30/2021 Analyzed: 08/31/2021					
Copper	2.5	0.0806	mg/Kg	2.5		100	80-120			
LRB (LRB-L571644)					Prepared: 08/30/2021 Analyzed: 08/31/2021					
Silver	ND	0.25	mg/Kg				-			
Arsenic	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Zinc	ND	2.5	"				-			
Nickel	ND	0.25	"				-			
MSD (Q 90590-MSD-L571644)					Source: 90590		Prepared: 08/30/2021 Analyzed: 08/31/2021			
Arsenic	2.35	0.0855	mg/Kg dry	2.47	<0.0855	95	75-125	5.7	80	
Lead	2.52	0.031	"	2.47	<0.0310	102	75-125	0.3	80	
Nickel	2.42	0.0633	"	2.47	<0.0633	98	75-125	2.8	80	
Selenium	4.7	0.103	"	4.94	<0.103	95	75-125	6.3	80	
Silver	0.518	0.0067	"	0.494	<0.0067	105	75-125	0.9	80	
Zinc	24.4	0.534	"	24.7	<0.534	99	75-125	0.8	80	
Copper	2.4	0.0806	"	2.47	<0.0806	97	75-125	3.2	80	
Barium	5.06	0.042	"	4.94	<0.042	102	75-125	2.1	80	
Cadmium	0.49	0.0259	"	0.494	<0.0259	99	75-125	6.8	80	
MS (Q 90590-MS-L571644)					Source: 90590		Prepared: 08/30/2021 Analyzed: 08/31/2021			
Zinc	24.6	0.534	mg/Kg dry	25	<0.534	98	75-125			
Silver	0.523	0.0067	"	0.5	<0.0067	105	75-125			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L571644 - 3050B

MS (Q 90590-MS-L571644)		Source: 90590			Prepared: 08/30/2021 Analyzed: 08/31/2021					
Selenium	5.01	0.103	mg/Kg dry	5	<0.103	100	75-125			
Nickel	2.49	0.0633	"	2.5	<0.0633	100	75-125			
Lead	2.51	0.031	"	2.5	<0.0310	101	75-125			
Copper	2.48	0.0806	"	2.5	<0.0806	99	75-125			
Cadmium	0.525	0.0259	"	0.5	<0.0259	105	75-125			
Arsenic	2.49	0.0855	"	2.5	<0.0855	100	75-125			
Barium	4.95	0.042	"	5	<0.042	99	75-125			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Wells Ranch AA #21-04

Total Metals by 7196 A - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L571771 -										
DUP (L 96693-DUP)		Source: Y108546-10			Prepared: Analyzed: 08/31/2021					
Chromium, Hexavalent	ND	0.249	mg/Kg		<0.511		-	0	20	
MS (L 96693-MS)		Source: Y108546-10			Prepared: Analyzed: 08/31/2021					
Chromium, Hexavalent	6.37	0.251	mg/Kg	8.25	<0.251	77	75-125			
LCS (LCS)					Prepared: Analyzed: 08/31/2021					
Chromium, Hexavalent	7.09	0.244	mg/Kg	8		89	75-125			
LRB (LRB)					Prepared: Analyzed: 08/31/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Wells Ranch AA #21-04

Total Metals by 7196A - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L571770 -

DUP (L 96661-DUP)		Source: 96661			Prepared: Analyzed: 08/31/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		<0.500		-	0	20	
MS (L 96661-MS)		Source: 96661			Prepared: Analyzed: 08/31/2021					
Chromium, Hexavalent	6.51	0.249	mg/Kg	8.19	<0.249	79	75-125			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Wells Ranch AA #21-04

Notes and Definitions

U Sample is Non-Detect.

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

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.

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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.



September 07, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Wells Ranch AA #21-04

Project Number - [none]

Attached are your analytical results for Noble - Wells Ranch AA #21-04 received by Origins Laboratory, Inc. August 31, 2021. This project is associated with Origins project number Y108633-01.

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 - Wells Ranch AA #21-04

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Stockpile-01@0.25'	Y108633-01	Soil	August 31, 2021 12:00	08/31/2021 15:07

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 - Wells Ranch AA #21-04

ORIGINS
LABORATORY, INC

Client: Eagly Fire Consulting

Address: 8000 W 44th Ave
Wentworth Bridge CO 80033

Telephone Number: 303 433 0479

Email Address: info@eagly-lab.com

www.originslaboratory.com

4108033

page 1 of 1

Project Manager: Norton Eckert III

Project Name: Wells Ranch AA #21-4

Project Number: -

Samples Collected By: AB

[illegible]

Date Results Needed

Temp Received.

Oh

Men

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4108433

Client: Eagle Env

Client Project ID: Abbie - Wells Ranch

Checklist Completed by: JB

Shipped Via: HLB

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

Date/time completed: 8/31/21

Airbill #: NA

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

Cooler Number/Temperature: 1 / 4.0 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 1003

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.

JP
Reviewed by (Project Manager)

8/31/21
Date/Time Reviewed

Origins Laboratory, Inc.

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

Stockpile-01@0.25'
8/31/2021 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108633-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.683	0.201	mg/L	1	B1I0108	09/01/2021	09/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	50.0	25.0	mg/kg	1	B1H3122	08/31/2021	08/31/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	69.2 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	0.0151	0.00200	mg/kg	1	B1H3114	08/31/2021	08/31/2021	
1,3,5-Trimethylbenzene	0.00366	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	0.00214	0.00200	"	"	"	"	"	
Toluene	0.00396	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.679	0.200	"	"	"	"	"	
Xylenes, total	0.0200	0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

Stockpile-01@0.25'

8/31/2021 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y108633-01 (Soil)

Metals by Saturated Paste

Calcium	4.64		0.499	meq/L	10	[CALC]	09/01/2021	09/02/2021	
Magnesium	2.25		0.823	"	"	"	"	"	
Sodium	2.21		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.093	0.00048	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
2-Methylnaphthalene	0.114	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	0.00603	0.000431	0.00067	"	"	"	"	"	
Anthracene	0.000923	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.000947	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.0017	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00172	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.00735	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	0.00104	0.000529	0.00067	"	"	"	"	"	
Fluorene	0.0197	0.000501	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	0.000998	0.000344	0.00067	"	"	"	"	"	
Naphthalene	0.0235	0.000467	0.00067	"	"	"	"	"	
Pyrene	0.00274	0.000387	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

Stockpile-01@0.25'

8/31/2021 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y108633-01 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	51.7 %		33-115			L5721 47	09/01/2021	09/02/2021	
Surrogate: 4-Terphenyl-d14	59.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	63.9 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.70			pH Units	1	B110102	09/01/2021	09/01/2021	
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SAR by 20B Saturated Paste

SAR	1.19			SAR	1	B110106	09/01/2021	09/02/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.906		0.00500	mmhos/cm	1	B110104	09/01/2021	09/01/2021	
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Total Metals by 6020B

Arsenic	1.96	0.0855	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
Barium	1380	0.085	0.5	"	10	"	"	"	
Cadmium	0.172	0.0259	0.25	"	5	"	"	"	J
Copper	8.62	0.0806	0.25	"	"	"	"	"	
Lead	5.94	0.031	0.25	"	"	"	"	"	
Nickel	5.23	0.0633	0.25	"	"	"	"	"	
Selenium	0.317	0.103	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

Stockpile-01@0.25'

8/31/2021 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y108633-01 (Soil)

Total Metals by 6020B

Silver	0.0319	0.0067	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	J
Zinc	38.3	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.502	1.03	mg/Kg	2	L572293	08/31/2021	09/02/2021	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1H3114 - EPA 5030 (soil)										
Blank (B1H3114-BLK1)					Prepared: 08/31/2021 Analyzed: 08/31/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	109		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.4		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	100		70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1H3114 - EPA 5030 (soil)

LCS (B1H3114-BS1)

Prepared: 08/31/2021 Analyzed: 08/31/2021

1,2,4-Trimethylbenzene	0.0480	0.00200	mg/kg	0.0500		96.0	70-130			
Naphthalene	0.0468	0.0100	"	0.0500		93.5	70-130			
1,3,5-Trimethylbenzene	0.0455	0.00200	"	0.0500		91.0	70-130			
Benzene	0.0413	0.00200	"	0.0500		82.6	70-130			
Ethylbenzene	0.0461	0.00200	"	0.0500		92.2	70-130			
m,p-Xylene	0.0969	0.00400	"	0.100		96.9	70-130			
o-Xylene	0.0470	0.00200	"	0.0500		94.0	70-130			
Toluene	0.0473	0.00200	"	0.0500		94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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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 - Wells Ranch AA #21-04

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 B1H3114 - EPA 5030 (soil)

Matrix Spike (B1H3114-MS1)		Source: Y108621-14			Prepared: 08/31/2021 Analyzed: 08/31/2021					
1,2,4-Trimethylbenzene	0.0463	0.00200	mg/kg	0.0500	ND	92.7	70-130			
Naphthalene	0.0439	0.0100	"	0.0500	ND	87.7	70-130			
1,3,5-Trimethylbenzene	0.0454	0.00200	"	0.0500	ND	90.8	70-130			
Benzene	0.0439	0.00200	"	0.0500	ND	87.8	70-130			
Ethylbenzene	0.0459	0.00200	"	0.0500	ND	91.9	70-130			
m,p-Xylene	0.0969	0.00400	"	0.100	ND	96.9	70-130			
o-Xylene	0.0475	0.00200	"	0.0500	ND	94.9	70-130			
Toluene	0.0485	0.00200	"	0.0500	ND	96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

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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 - Wells Ranch AA #21-04

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 B1H3114 - EPA 5030 (soil)										
Matrix Spike Dup (B1H3114-MSD1)			Source: Y108621-14			Prepared: 08/31/2021 Analyzed: 08/31/2021				
1,2,4-Trimethylbenzene	0.0484	0.00200	mg/kg	0.0500	ND	96.9	70-130	4.43	20	
Naphthalene	0.0467	0.0100	"	0.0500	ND	93.3	70-130	6.19	20	
1,3,5-Trimethylbenzene	0.0464	0.00200	"	0.0500	ND	92.7	70-130	2.05	20	
Benzene	0.0446	0.00200	"	0.0500	ND	89.2	70-130	1.58	20	
Ethylbenzene	0.0476	0.00200	"	0.0500	ND	95.2	70-130	3.51	20	
m,p-Xylene	0.100	0.00400	"	0.100	ND	100	70-130	3.29	20	
o-Xylene	0.0489	0.00200	"	0.0500	ND	97.8	70-130	2.99	20	
Toluene	0.0505	0.00200	"	0.0500	ND	101	70-130	4.16	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.6	70-130			

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1H3122 - EPA 3550B										
Blank (B1H3122-BLK1)					Prepared: 08/31/2021 Analyzed: 08/31/2021					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	40		"	50.0		79.8	50-150			

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Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1H3122 - EPA 3550B

LCS (B1H3122-BS1)

Prepared: 08/31/2021 Analyzed: 08/31/2021

Diesel (C10-C28)	857	50.0	mg/kg	1000		85.7	70-130			
Residual Range Organics (C28-C40)	868	200	"	1000		86.8	70-130			
Surrogate: o-Terphenyl	41		"	50.0		82.8	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 - Wells Ranch AA #21-04

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 B1H3122 - EPA 3550B

Matrix Spike (B1H3122-MS1)		Source: Y108633-01			Prepared: 08/31/2021 Analyzed: 08/31/2021					
Diesel (C10-C28)	934	50.0	mg/kg	1000	50.0	88.4	70-130			
Residual Range Organics (C28-C40)	971	200	"	1000	27.1	94.3	70-130			
Surrogate: o-Terphenyl	42		"	50.0		84.6	50-150			

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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 - Wells Ranch AA #21-04

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 B1H3122 - EPA 3550B

Matrix Spike Dup (B1H3122-MSD1)		Source: Y108633-01			Prepared: 08/31/2021 Analyzed: 08/31/2021					
Diesel (C10-C28)	942	50.0	mg/kg	1000	50.0	89.2	70-130	0.866	35	
Residual Range Organics (C28-C40)	975	200	"	1000	27.1	94.8	70-130	0.452	35	
Surrogate: o-Terphenyl	45		"	50.0		89.5	50-150			

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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 - Wells Ranch AA #21-04

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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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 B1I0102 - NO PREP

Duplicate (B1I0102-DUP1)

Source: Y108628-01

Prepared: 09/01/2021 Analyzed: 09/01/2021

pH	9.53		pH Units	9.34		2.01	25
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Batch B1I0104 - NO PREP

Blank (B1I0104-BLK1)

Prepared: 09/01/2021 Analyzed: 09/01/2021

Specific Conductance (EC)	0.00420	0.00500	mmhos/cm
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Duplicate (B1I0104-DUP1)

Source: Y108628-01

Prepared: 09/01/2021 Analyzed: 09/01/2021

Specific Conductance (EC)	2.70	0.00500	mmhos/cm	2.73		0.976	25
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L572147 - 3550B

MSD (L 97642-MSD-L572147)		Source: 97642			Prepared: 09/01/2021 Analyzed: 09/02/2021					
Chrysene	0.117	0.000256	mg/Kg	0.166	97642	70.4	30-130	3.4	30	
Naphthalene	0.0965	0.000467	"	0.166	97642	58.1	30-130	3.3	30	
Pyrene	0.116	0.000387	"	0.166	97642	69.8	30-130	5.3	30	
Indeno(1,2,3-cd)pyrene	0.139	0.000344	"	0.166	97642	83.7	30-130	6.6	30	
Fluorene	0.113	0.000501	"	0.166	97642	68	30-130	5.4	30	
Fluoranthene	0.116	0.000529	"	0.166	97642	69.8	30-130	4.4	30	
Dibenz(a,h)anthracene	0.138	0.000279	"	0.166	97642	83.1	30-130	5.9	30	
1-Methylnaphthalene	0.0995	0.00048	"	0.166	97642	59.9	30-130	4.9	30	
Benzo(b)fluoranthene	0.128	0.000138	"	0.166	97642	77.1	30-130	5.6	30	
Benzo(a)pyrene	0.12	0.000133	"	0.166	97642	72.2	30-130	3.3	30	
Benzo(a)anthracene	0.115	0.000441	"	0.166	97642	69.2	30-130	2.6	30	
Anthracene	0.117	0.000426	"	0.166	97642	70.4	30-130	4.3	30	
Acenaphthene	0.107	0.000431	"	0.166	97642	64.4	30-130	6.7	30	
2-Methylnaphthalene	0.0987	0.000542	"	0.166	0.000721	59	30-130	4.1	30	
Benzo(k)fluoranthene	0.109	0.000486	"	0.166	97642	65.6	30-130	8.7	30	
Surrogate: Nitrobenzene-d5	59.8		"	0.331	196	59.8	29-110			
Surrogate: 2-Fluorobiphenyl	54.3		"	0.331	174	54.3	33-115			
Surrogate: 4-Terphenyl-d14	65.8		"	0.331	216	65.8	33-122			

MS (L 97642-MS-L572147)		Source: 97642			Prepared: 09/01/2021 Analyzed: 09/02/2021					
Benzo(a)pyrene	0.116	0.000133	mg/Kg	0.163	97642	71.1	30-130			
Acenaphthene	0.1	0.000431	"	0.163	97642	61.3	30-130			
2-Methylnaphthalene	0.0947	0.000542	"	0.163	0.000721	57.6	30-130			
Benzo(a)anthracene	0.112	0.000441	"	0.163	97642	68.7	30-130			
1-Methylnaphthalene	0.0947	0.00048	"	0.163	97642	58	30-130			
Naphthalene	0.0933	0.000467	"	0.163	97642	57.2	30-130			
Anthracene	0.112	0.000426	"	0.163	97642	68.7	30-130			

Origins Laboratory, Inc.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L572147 - 3550B

MS (L 97642-MS-L572147)		Source: 97642			Prepared: 09/01/2021 Analyzed: 09/02/2021					
Indeno(1,2,3-cd)pyrene	0.13	0.000344	mg/Kg	0.163	97642	79.7	30-130			
Fluorene	0.107	0.000501	"	0.163	97642	65.6	30-130			
Fluoranthene	0.111	0.000529	"	0.163	97642	68	30-130			
Dibenz(a,h)anthracene	0.13	0.000279	"	0.163	97642	79.7	30-130			
Chrysene	0.113	0.000256	"	0.163	97642	69.3	30-130			
Benzo(k)fluoranthene	0.0999	0.000486	"	0.163	97642	61.2	30-130			
Benzo(b)fluoranthene	0.121	0.000138	"	0.163	97642	74.2	30-130			
Pyrene	0.11	0.000387	"	0.163	97642	67.4	30-130			
Surrogate: 4-Terphenyl-d14	64.4		"	0.326	216	64.4	33-122			
Surrogate: 2-Fluorobiphenyl	52.4		"	0.326	174	52.4	33-115			
Surrogate: Nitrobenzene-d5	57.9		"	0.326	196	57.9	29-110			

LCS (LCS-L572147)		Prepared: 09/01/2021 Analyzed: 09/02/2021								
Naphthalene	0.109	0.000467	mg/Kg	0.167		65.2	30-130			
Benzo(k)fluoranthene	0.132	0.000486	"	0.167		79	30-130			
2-Methylnaphthalene	0.108	0.000542	"	0.167		64.6	30-130			
Acenaphthene	0.116	0.000431	"	0.167		69.4	30-130			
Anthracene	0.128	0.000426	"	0.167		76.6	30-130			
Benzo(a)anthracene	0.132	0.000441	"	0.167		79	30-130			
Benzo(a)pyrene	0.135	0.000133	"	0.167		80.8	30-130			
Benzo(b)fluoranthene	0.128	0.000138	"	0.167		76.6	30-130			
Chrysene	0.131	0.000256	"	0.167		78.4	30-130			
Dibenz(a,h)anthracene	0.15	0.000279	"	0.167		89.8	30-130			
Fluoranthene	0.128	0.000529	"	0.167		76.6	30-130			
1-Methylnaphthalene	0.11	0.00048	"	0.167		65.8	30-130			
Indeno(1,2,3-cd)pyrene	0.148	0.000344	"	0.167		88.6	30-130			
Pyrene	0.128	0.000387	"	0.167		76.6	30-130			

Origins Laboratory, Inc.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L572147 - 3550B

LCS (LCS-L572147)

Prepared: 09/01/2021 Analyzed: 09/02/2021

Fluorene	0.123	0.000501	mg/Kg	0.167		73.6	30-130			
Surrogate: 2-Fluorobiphenyl	63.3		"	0.333	63.3		33-115			
Surrogate: Nitrobenzene-d5	75.6		"	0.333	75.6		29-110			
Surrogate: 4-Terphenyl-d14	75.9		"	0.333	75.9		33-122			

LRB (LRB-L572147)

Prepared: 09/01/2021 Analyzed: 09/02/2021

Benzo(a)anthracene	ND	0.00067	mg/Kg				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	61.2		"	0.333	61.2		33-115			
Surrogate: 4-Terphenyl-d14	75.3		"	0.333	75.3		33-122			
Surrogate: Nitrobenzene-d5	68.1		"	0.333	68.1		29-110			

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

Total Metals by 6020B - Quality Control

Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L572102 - 3050B

MSD (L 97658-MSD-L572102)			Source: 97658			Prepared: 09/01/2021 Analyzed: 09/02/2021				
Cadmium	0.664	0.0259	mg/Kg	0.499	0.242	133	75-125	5.1	80	*
Nickel	10.9	0.0633	"	2.5	8.34	103	75-125	15.2	80	
Barium	43.1	0.042	"	4.99	45	NR	75-125	41.6	80	*
Copper	14.9	0.0806	"	2.5	15	NR	75-125	22	80	*
Lead	16.1	0.031	"	2.5	15	44	75-125	12.2	80	*
Silver	0.511	0.0067	"	0.499	0.0666	102	75-125	5.1	80	
Zinc	61	0.534	"	25	35	104	75-125	10.5	80	
Arsenic	4.57	0.0855	"	2.5	2.4	87	75-125	38.3	80	
Selenium	4.22	0.103	"	4.99	0.715	70	75-125	9.1	80	*
MS (L 97658-MS-L572102)			Source: 97658			Prepared: 09/01/2021 Analyzed: 09/02/2021				
Copper	18.6	0.0806	mg/Kg	2.45	15	147	75-125			*
Zinc	54.9	0.534	"	24.5	35	81	75-125			
Selenium	3.85	0.103	"	4.9	0.715	64	75-125			*
Nickel	12.7	0.0633	"	2.45	8.34	178	75-125			*
Lead	18.2	0.031	"	2.45	15	131	75-125			*
Silver	0.538	0.0067	"	0.49	0.0666	110	75-125			
Arsenic	3.1	0.0855	"	2.45	2.4	29	75-125			*
Cadmium	0.699	0.0259	"	0.49	0.242	143	75-125			*
Barium	65.8	0.042	"	4.9	45	425	75-125			*
LCS (LCS-L572102)			Prepared: 09/01/2021 Analyzed: 09/02/2021							
Arsenic	2.54	0.0855	mg/Kg	2.5		102	80-120			
Barium	4.92	0.042	"	5		98	80-120			
Cadmium	0.447	0.0259	"	0.5		89	80-120			
Copper	2.4	0.0806	"	2.5		96	80-120			
Lead	2.47	0.031	"	2.5		99	80-120			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L572102 - 3050B

LCS (LCS-L572102)

Prepared: 09/01/2021 Analyzed: 09/02/2021

Nickel	2.34	0.0633	mg/Kg	2.5		94	80-120			
Selenium	5.1	0.103	"	5		102	80-120			
Zinc	23.6	0.534	"	25		94	80-120			
Silver	0.484	0.0067	"	0.5		97	80-120			

LRB (LRB-L572102)

Prepared: 09/01/2021 Analyzed: 09/02/2021

Barium	ND	0.25	mg/Kg				-			
Zinc	ND	2.5	"				-			
Arsenic	ND	0.25	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

Total Metals by 7196A - Quality Control Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L572293 -										
DUP (L 97642-DUP)		Source: 97642			Prepared: Analyzed: 09/02/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		97642	-		0	20	
MS (L 97642-MS)		Source: 97642			Prepared: Analyzed: 09/02/2021					
Chromium, Hexavalent	6.13	0.246	mg/Kg	8.11	97642	76	75-125			
LCS (LCS)					Prepared: Analyzed: 09/02/2021					
Chromium, Hexavalent	6.42	0.244	mg/Kg	8		80	75-125			
LRB (LRB)					Prepared: Analyzed: 09/02/2021					
Chromium, Hexavalent	0.251	0.5	mg/Kg				-			J

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Wells Ranch AA #21-04

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.

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.



September 07, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Wells Ranch AA #21-04

Project Number - [none]

Attached are your analytical results for Noble - Wells Ranch AA #21-04 received by Origins Laboratory, Inc. August 31, 2021. This project is associated with Origins project number Y108634-01.

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 - Wells Ranch AA #21-04

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS-06@6.5'	Y108634-01	Soil	August 31, 2021 9:40	08/31/2021 15:07
SS-24@5'	Y108634-02	Soil	August 31, 2021 9:38	08/31/2021 15:07
SS-25@5'	Y108634-03	Soil	August 31, 2021 9:36	08/31/2021 15:07
SS-26@5'	Y108634-04	Soil	August 31, 2021 9:34	08/31/2021 15:07
SS-27@5'	Y108634-05	Soil	August 31, 2021 9:32	08/31/2021 15:07
SS-32@0.25'	Y108634-06	Soil	August 31, 2021 11:25	08/31/2021 15:07
SS-33@0.25'	Y108634-07	Soil	August 31, 2021 11:30	08/31/2021 15:07
SS-34@0.25'	Y108634-08	Soil	August 31, 2021 11:35	08/31/2021 15:07
SS-35@0.25'	Y108634-09	Soil	August 31, 2021 11:45	08/31/2021 15:07

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

ORIGINS
LABORATORY, INC

www.originslaboratory.com

4108634

page 1 of 1

Client: Eagle Env Consulting
Address: 8000 W 44th Ave
Wheat Ridge CO 80033
Telephone Number: 303.433.0479
Email Address: mce@eagle-env.com

Project Manager: Martin Eckert III
Project Name: Wells Ranch AA #21-04
Project Number: [none]
Samples Collected By: AB

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix	Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other			
ES-06 @ 0.5'	8/3/21	0940	2	X				Soil	GC/MS, ICP-MS, PAHs, PCBs, Dioxins, Furans, BTEX, TMAHs, EC-1000A, EC-200B, EC-300C, EC-400D, EC-500E, EC-600F, EC-700G, EC-800H, EC-900I, EC-1000J, EC-1100K, EC-1200L, EC-1300M, EC-1400N, EC-1500O, EC-1600P, EC-1700Q, EC-1800R, EC-1900S, EC-2000T, EC-2100U, EC-2200V, EC-2300W, EC-2400X, EC-2500Y, EC-2600Z, EC-2700A, EC-2800B, EC-2900C, EC-3000D, EC-3100E, EC-3200F, EC-3300G, EC-3400H, EC-3500I, EC-3600J, EC-3700K, EC-3800L, EC-3900M, EC-4000N, EC-4100O, EC-4200P, EC-4300Q, EC-4400R, EC-4500S, EC-4600T, EC-4700U, EC-4800V, EC-4900W, EC-5000X, EC-5100Y, EC-5200Z, EC-5300A, EC-5400B, EC-5500C, EC-5600D, EC-5700E, EC-5800F, EC-5900G, EC-6000H, EC-6100I, EC-6200J, EC-6300K, EC-6400L, EC-6500M, EC-6600N, EC-6700O, EC-6800P, EC-6900Q, EC-7000R, EC-7100S, EC-7200T, EC-7300U, EC-7400V, EC-7500W, EC-7600X, EC-7700Y, EC-7800Z, EC-7900A, EC-8000B, EC-8100C, EC-8200D, EC-8300E, EC-8400F, EC-8500G, EC-8600H, EC-8700I, EC-8800J, EC-8900K, EC-9000L, EC-9100M, EC-9200N, EC-9300O, EC-9400P, EC-9500Q, EC-9600R, EC-9700S, EC-9800T, EC-9900U, EC-10000V	1
SS-24 @ 0.5'		0938								2
SS-25 @ 0.5'		0936								3
SS-26 @ 0.5'		0934								4
SS-27 @ 0.5'		0932								5
SS-32 @ 0.25'		1125								6
SS-33 @ 0.25'		1130								7
SS-34 @ 0.25'		1135								8
SS-35 @ 0.25'		1145								9
										10

Relinquished By: [Signature] Date: 8/3/21 Time: 1507
Relinquished By: [Signature] Date: 8/3/21 Time: 1507

Received By: [Signature] Date: 8/3/21 Time: 1507
Received By: [Signature] Date: 8/3/21 Time: 1507

Turnaround Time: Same Day ☒ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐

Temp Received: 4.0

Date Results Needed: 8/10/21

Origins Laboratory, Inc.

[Signature]

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4108634

Client: Eagle Env

Client Project ID: Noble Wells Ranch

Checklist Completed by: JE

Shipped Via: UPS

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

Date/time completed: 8/31/21

Airbill #: NA

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

☐ Water

☐ Other:

Cooler Number/Temperature: 1 / 4.0 °C 1 / 1 °C 1 / 1 °C (Describe)

Thermometer ID: TCB

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: JE (Project Manager)

Date/Time Reviewed: 8/31/21

Origins Laboratory, Inc.

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

FS-06@6.5'

8/31/2021 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.256	0.197	mg/L	1	B110108	09/01/2021	09/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H3122	08/31/2021	08/31/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	69.7 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H3114	08/31/2021	08/31/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

FS-06@6.5'

8/31/2021 9:40:00AM

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

Origins Laboratory, Inc.
Y108634-01 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	98.9 %		70-130			B1H31 14	08/31/2021	08/31/2021	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	8.37		0.499	meq/L	10	[CALC]	09/01/2021	09/02/2021	
Magnesium	4.23		0.823	"	"	"	"	"	
Sodium	6.00		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
2-Methylnaphthalene	0.000721	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

FS-06@6.5'

8/31/2021 9:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	52.6 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	65.3 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	59.2 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.10			pH Units	1	B110102	09/01/2021	09/01/2021
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SAR by 20B Saturated Paste

SAR	2.39			SAR	1	B110106	09/01/2021	09/02/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.70		0.00500	mmhos/cm	1	B110104	09/01/2021	09/01/2021
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Total Metals by 6020B

Arsenic	1.76	0.0855	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

FS-06@6.5'

8/31/2021 9:40:00AM

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

Waypoint Analytical, Inc.
Y108634-01 (Soil)

Total Metals by 6020B

Barium	74	0.042	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
Cadmium	0.102	0.0259	0.25	"	"	"	"	"	J
Copper	4.1	0.0806	0.25	"	"	"	"	"	
Lead	5.54	0.031	0.25	"	"	"	"	"	
Nickel	4.36	0.0633	0.25	"	"	"	"	"	
Selenium	0.168	0.103	0.25	"	"	"	"	"	J
Silver	0.0226	0.0067	0.25	"	"	"	"	"	J
Zinc	22	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L572293	08/31/2021	09/02/2021	
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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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-24@5'

8/31/2021 9:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.201	0.201	mg/L	1	B1I0108	09/01/2021	09/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H3122	08/31/2021	08/31/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	72.3 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H3114	08/31/2021	08/31/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-24@5'

8/31/2021 9:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-02 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	96.5 %	70-130	B1H31 14	08/31/2021	08/31/2021
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	4.96	0.499	meq/L	10	[CALC]	09/01/2021	09/02/2021
Magnesium	3.03	0.823	"	"	"	"	"
Sodium	3.14	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.000616	0.00048	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	J
2-Methylnaphthalene	0.00187	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-24@5'

8/31/2021 9:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	0.000837	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	54.4 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	67.4 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	61.3 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.24			pH Units	1	B110102	09/01/2021	09/01/2021
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SAR by 20B Saturated Paste

SAR	1.57			SAR	1	B110106	09/01/2021	09/02/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.06		0.00500	mmhos/cm	1	B110104	09/01/2021	09/01/2021
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Total Metals by 6020B

Arsenic	1.73	0.0855	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021
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Origins Laboratory, Inc.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-24@5'

8/31/2021 9:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-02 (Soil)

Total Metals by 6020B

Barium	83.3	0.042	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
Cadmium	0.0773	0.0259	0.25	"	"	"	"	"	J
Copper	3.49	0.0806	0.25	"	"	"	"	"	
Lead	4.77	0.031	0.25	"	"	"	"	"	
Nickel	3.27	0.0633	0.25	"	"	"	"	"	
Selenium	0.147	0.103	0.25	"	"	"	"	"	J
Silver	0.014	0.0067	0.25	"	"	"	"	"	J
Zinc	16.4	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L572293	08/31/2021	09/02/2021	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-25@5'

8/31/2021 9:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.256	0.197	mg/L	1	B1I0108	09/01/2021	09/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H3122	08/31/2021	08/31/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	90.5 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H3114	08/31/2021	08/31/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.1 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-25@5'

8/31/2021 9:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-03 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	102 %		70-130			B1H31 14	08/31/2021	08/31/2021	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	13.1		0.499	meq/L	10	[CALC]	09/01/2021	09/02/2021	
Magnesium	8.01		0.823	"	"	"	"	"	
Sodium	27.3		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-25@5'

8/31/2021 9:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-03 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	56.2 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	67.4 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	61 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.08			pH Units	1	B110102	09/01/2021	09/01/2021
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SAR by 20B Saturated Paste

SAR	8.40			SAR	1	B110106	09/01/2021	09/02/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.02		0.00500	mmhos/cm	1	B110104	09/01/2021	09/01/2021
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Total Metals by 6020B

Arsenic	1.88	0.0855	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-25@5'

8/31/2021 9:36:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-03 (Soil)

Total Metals by 6020B

Barium	95.1	0.042	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
Cadmium	0.101	0.0259	0.25	"	"	"	"	"	J
Copper	4.58	0.0806	0.25	"	"	"	"	"	
Lead	6.02	0.031	0.25	"	"	"	"	"	
Nickel	4.63	0.0633	0.25	"	"	"	"	"	
Selenium	0.159	0.103	0.25	"	"	"	"	"	J
Silver	0.019	0.0067	0.25	"	"	"	"	"	J
Zinc	22.3	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L572293	08/31/2021	09/02/2021	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-26@5'

8/31/2021 9:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.197	mg/L	1	B110108	09/01/2021	09/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H3122	08/31/2021	08/31/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	70.2 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H3114	08/31/2021	08/31/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-26@5'

8/31/2021 9:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-04 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	97.5 %	70-130	B1H31 14	08/31/2021	08/31/2021
Surrogate: 4-Bromofluorobenzene	98.9 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	6.41	0.499	meq/L	10	[CALC]	09/01/2021	09/02/2021
Magnesium	3.53	0.823	"	"	"	"	"
Sodium	1.44	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"
Anthracene	ND	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	ND	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-26@5'

8/31/2021 9:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-04 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	51.7 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	63.3 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	63.3 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.12			pH Units	1	B110102	09/01/2021	09/01/2021
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SAR by 20B Saturated Paste

SAR	0.646			SAR	1	B110106	09/01/2021	09/02/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.08		0.00500	mmhos/cm	1	B110104	09/01/2021	09/01/2021
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Total Metals by 6020B

Arsenic	2.05	0.0855	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-26@5'

8/31/2021 9:34:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-04 (Soil)

Total Metals by 6020B

Barium	42.6	0.042	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
Cadmium	0.109	0.0259	0.25	"	"	"	"	"	J
Copper	3.65	0.0806	0.25	"	"	"	"	"	
Lead	4.31	0.031	0.25	"	"	"	"	"	
Nickel	3.59	0.0633	0.25	"	"	"	"	"	
Selenium	0.198	0.103	0.25	"	"	"	"	"	J
Silver	0.0158	0.0067	0.25	"	"	"	"	"	J
Zinc	18	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L572293	08/31/2021	09/02/2021	
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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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-27@5'

8/31/2021 9:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.201	mg/L	1	B110108	09/01/2021	09/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H3122	08/31/2021	08/31/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H3114	08/31/2021	08/31/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	92.8 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-27@5'

8/31/2021 9:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-05 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	101 %		70-130			B1H31 14	08/31/2021	08/31/2021	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	6.81		0.499	meq/L	10	[CALC]	09/01/2021	09/02/2021	
Magnesium	3.60		0.823	"	"	"	"	"	
Sodium	2.41		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00048	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
2-Methylnaphthalene	ND	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	ND	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-27@5'

8/31/2021 9:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-05 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000501	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021
Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	"	"	"	"	"
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	49.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	60 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	53.6 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.15	pH Units	1	B110102	09/01/2021	09/01/2021
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SAR by 20B Saturated Paste

SAR	1.06	SAR	1	B110106	09/01/2021	09/02/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.16	0.00500	mmhos/cm	1	B110104	09/01/2021	09/01/2021
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Total Metals by 6020B

Arsenic	1.78	0.0855	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021
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Origins Laboratory, Inc.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-27@5'

8/31/2021 9:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-05 (Soil)

Total Metals by 6020B

Barium	39.2	0.042	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
Cadmium	0.0735	0.0259	0.25	"	"	"	"	"	J
Copper	3.64	0.0806	0.25	"	"	"	"	"	
Lead	4.58	0.031	0.25	"	"	"	"	"	
Nickel	3.83	0.0633	0.25	"	"	"	"	"	
Selenium	0.189	0.103	0.25	"	"	"	"	"	J
Silver	0.0143	0.0067	0.25	"	"	"	"	"	J
Zinc	18.6	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.505	mg/Kg	1	L572293	08/31/2021	09/02/2021	
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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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-32@0.25'

8/31/2021 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.433	0.197	mg/L	1	B1I0108	09/01/2021	09/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	158	25.0	mg/kg	1	B1H3122	08/31/2021	08/31/2021	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.3 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	0.00982	0.00200	mg/kg	1	B1H3114	08/31/2021	09/01/2021	
1,3,5-Trimethylbenzene	0.00462	0.00200	"	"	"	"	"	
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.747	0.200	"	"	"	"	"	
Xylenes, total	0.00244	0.00200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.4 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-32@0.25'

8/31/2021 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-06 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	99.5 %	70-130	B1H31 14	08/31/2021	09/01/2021
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Metals by Saturated Paste

Calcium	7.81	0.499	meq/L	10	[CALC]	09/01/2021	09/02/2021
Magnesium	4.39	0.823	"	"	"	"	"
Sodium	4.48	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.122	0.00048	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021
2-Methylnaphthalene	0.133	0.000542	0.00067	"	"	"	"	"
Acenaphthene	0.012	0.000431	0.00067	"	"	"	"	"
Anthracene	0.00198	0.000426	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.00365	0.000441	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.000915	0.000133	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.000519	0.000138	0.00067	"	"	"	"	" J
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"
Chrysene	0.00981	0.000256	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	0.000446	0.000279	0.00067	"	"	"	"	" J
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"
Fluorene	0.0384	0.000501	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	0.000351	0.000344	0.00067	"	"	"	"	" J

Origins Laboratory, Inc.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-32@0.25'

8/31/2021 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-06 (Soil)

PAH by 8270D SIM

Naphthalene	0.0165	0.000467	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
Pyrene	0.00398	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	47.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	49.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.6 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.90			pH Units	1	B110102	09/01/2021	09/01/2021	
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SAR by 20B Saturated Paste

SAR	1.81			SAR	1	B110106	09/01/2021	09/02/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.54		0.00500	mmhos/cm	1	B110104	09/01/2021	09/01/2021	
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Total Metals by 6020B

Arsenic	1.49	0.0855	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
Barium	92.4	0.042	0.25	"	"	"	"	"	
Cadmium	0.0825	0.0259	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-32@0.25'

8/31/2021 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-06 (Soil)

Total Metals by 6020B

Copper	3.79	0.0806	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
Lead	4.04	0.031	0.25	"	"	"	"	"	
Nickel	3.3	0.0633	0.25	"	"	"	"	"	
Selenium	0.155	0.103	0.25	"	"	"	"	"	J
Silver	0.0116	0.0067	0.25	"	"	"	"	"	J
Zinc	17.1	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L572293	08/31/2021	09/02/2021	
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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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-33@0.25'

8/31/2021 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.678	0.199	mg/L	1	B1I0108	09/01/2021	09/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H3122	08/31/2021	08/31/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	73.3 %	50-150	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H3114	08/31/2021	09/01/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %	70-130	"	"	"
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-33@0.25'

8/31/2021 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-07 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	96.2 %	70-130	B1H31 14	08/31/2021	09/01/2021
Surrogate: 4-Bromofluorobenzene	99.6 %	70-130	"	"	"

Metals by Saturated Paste

Calcium	3.91	0.499	meq/L	10	[CALC]	09/01/2021	09/02/2021
Magnesium	1.92	0.823	"	"	"	"	"
Sodium	2.50	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.0276	0.00048	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
2-Methylnaphthalene	0.0411	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	0.00284	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.000484	0.000441	0.00067	"	"	"	"	"	J
Benzo(a)pyrene	0.000588	0.000133	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.000347	0.000138	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.0031	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	
Fluorene	0.00882	0.000501	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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-33@0.25'

8/31/2021 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-07 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021
Naphthalene	0.00282	0.000467	0.00067	"	"	"	"	"
Pyrene	0.00108	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	52.1 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	63.6 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	63.6 %		29-110			"	"	"

pH in Soil by 9045D

pH	7.76			pH Units	1	B110102	09/01/2021	09/01/2021
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SAR by 20B Saturated Paste

SAR	1.46			SAR	1	B110106	09/01/2021	09/02/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.837		0.00500	mmhos/cm	1	B110104	09/01/2021	09/01/2021
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Total Metals by 6020B

Arsenic	1.84	0.0855	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021
Barium	173	0.042	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-33@0.25'

8/31/2021 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-07 (Soil)

Total Metals by 6020B

Cadmium	0.119	0.0259	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	J
Copper	6.59	0.0806	0.25	"	"	"	"	"	
Lead	5.87	0.031	0.25	"	"	"	"	"	
Nickel	4.04	0.0633	0.25	"	"	"	"	"	
Selenium	0.246	0.103	0.25	"	"	"	"	"	J
Silver	0.0219	0.0067	0.25	"	"	"	"	"	J
Zinc	31.1	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L572293	08/31/2021	09/02/2021	
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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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-34@0.25'

8/31/2021 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.456	0.198	mg/L	1	B1I0108	09/01/2021	09/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H3122	08/31/2021	08/31/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	73.3 %	50-150	"	"	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H3114	08/31/2021	09/01/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	120 %	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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-34@0.25'

8/31/2021 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-08 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	96.0 %		70-130			B1H31 14	08/31/2021	09/01/2021	
Surrogate: 4-Bromofluorobenzene	99.8 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	20.1		0.499	meq/L	10	[CALC]	09/01/2021	09/02/2021	
Magnesium	6.19		0.823	"	"	"	"	"	
Sodium	7.80		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.000912	0.00048	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
2-Methylnaphthalene	0.00148	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000133	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.000497	0.000256	0.00067	"	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	
Fluorene	0.000852	0.000501	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-34@0.25'

8/31/2021 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-08 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	mg/Kg	1	L572147	09/01/2021	09/02/2021	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	55.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	70.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	61.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.82			pH Units	1	B110102	09/01/2021	09/01/2021	
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SAR by 20B Saturated Paste

SAR	2.15			SAR	1	B110106	09/01/2021	09/02/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.05		0.00500	mmhos/cm	1	B110104	09/01/2021	09/01/2021	
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Total Metals by 6020B

Arsenic	3.59	0.0855	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	
Barium	48.8	0.042	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-34@0.25'

8/31/2021 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-08 (Soil)

Total Metals by 6020B

Cadmium	0.137	0.0259	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	J
Copper	7.6	0.0806	0.25	"	"	"	"	"	
Lead	11.2	0.031	0.25	"	"	"	"	"	
Nickel	6.7	0.0633	0.25	"	"	"	"	"	
Selenium	0.242	0.103	0.25	"	"	"	"	"	J
Silver	0.0272	0.0067	0.25	"	"	"	"	"	J
Zinc	35.3	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.252	0.517	mg/Kg	1	L572293	08/31/2021	09/02/2021	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-35@0.25'

8/31/2021 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-09 (Soil)

Boron (DTPA Sorbitol)

Boron	0.690	0.203	mg/L	1	B110108	09/01/2021	09/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H3122	08/31/2021	08/31/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	69.1 %	50-150	"	"	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1H3123	08/31/2021	09/01/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"	"	"
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-35@0.25'

8/31/2021 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108634-09 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	98.1 %		70-130			B1H31 23	08/31/2021	09/01/2021	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	11.7		0.499	meq/L	10	[CALC]	09/01/2021	09/02/2021	
Magnesium	6.49		0.823	"	"	"	"	"	
Sodium	2.98		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00556	0.0024	0.00335	mg/Kg	5	L572147	09/01/2021	09/02/2021	
2-Methylnaphthalene	0.00901	0.00271	0.00335	"	"	"	"	"	
Acenaphthene	ND	0.00216	0.00335	"	"	"	"	"	
Anthracene	ND	0.00213	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00221	0.00335	"	"	"	"	"	
Benzo(a)pyrene	0.00114	0.000665	0.00335	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.00069	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00243	0.00335	"	"	"	"	"	
Chrysene	ND	0.00128	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.0014	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00265	0.00335	"	"	"	"	"	
Fluorene	ND	0.00251	0.00335	"	"	"	"	"	

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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 - Wells Ranch AA #21-04

SS-35@0.25'

8/31/2021 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-09 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00172	0.00335	mg/Kg	5	L572147	09/01/2021	09/02/2021
Naphthalene	ND	0.00234	0.00335	"	"	"	"	"
Pyrene	ND	0.00194	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	59.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	73.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	72.3 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.40	pH Units	1	B110102	09/01/2021	09/01/2021
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SAR by 20B Saturated Paste

SAR	0.987	SAR	1	B110106	09/01/2021	09/02/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.15	0.00500	mmhos/cm	1	B110104	09/01/2021	09/01/2021
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Total Metals by 6020B

Arsenic	1.62	0.0855	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021
Barium	175	0.042	0.25	"	"	"	"	"

Origins Laboratory, Inc.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-35@0.25'

8/31/2021 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y108634-09 (Soil)

Total Metals by 6020B

Cadmium	0.078	0.0259	0.25	mg/Kg	5	L572102	09/01/2021	09/02/2021	J
Copper	4.29	0.0806	0.25	"	"	"	"	"	
Lead	6.79	0.031	0.25	"	"	"	"	"	
Nickel	2.99	0.0633	0.25	"	"	"	"	"	
Selenium	0.227	0.103	0.25	"	"	"	"	"	J
Silver	0.0139	0.0067	0.25	"	"	"	"	"	J
Zinc	23.6	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L572293	08/31/2021	09/02/2021	
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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 - Wells Ranch AA #21-04

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 B1H3114 - EPA 5030 (soil)										
Blank (B1H3114-BLK1)					Prepared: 08/31/2021 Analyzed: 08/31/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	109		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.4		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	100		70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1H3114 - EPA 5030 (soil)

LCS (B1H3114-BS1)

Prepared: 08/31/2021 Analyzed: 08/31/2021

1,2,4-Trimethylbenzene	0.0480	0.00200	mg/kg	0.0500		96.0	70-130			
Naphthalene	0.0468	0.0100	"	0.0500		93.5	70-130			
1,3,5-Trimethylbenzene	0.0455	0.00200	"	0.0500		91.0	70-130			
Benzene	0.0413	0.00200	"	0.0500		82.6	70-130			
Ethylbenzene	0.0461	0.00200	"	0.0500		92.2	70-130			
m,p-Xylene	0.0969	0.00400	"	0.100		96.9	70-130			
o-Xylene	0.0470	0.00200	"	0.0500		94.0	70-130			
Toluene	0.0473	0.00200	"	0.0500		94.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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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 - Wells Ranch AA #21-04

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 B1H3114 - EPA 5030 (soil)

Matrix Spike (B1H3114-MS1)		Source: Y108621-14			Prepared: 08/31/2021 Analyzed: 08/31/2021					
1,2,4-Trimethylbenzene	0.0463	0.00200	mg/kg	0.0500	ND	92.7	70-130			
Naphthalene	0.0439	0.0100	"	0.0500	ND	87.7	70-130			
1,3,5-Trimethylbenzene	0.0454	0.00200	"	0.0500	ND	90.8	70-130			
Benzene	0.0439	0.00200	"	0.0500	ND	87.8	70-130			
Ethylbenzene	0.0459	0.00200	"	0.0500	ND	91.9	70-130			
m,p-Xylene	0.0969	0.00400	"	0.100	ND	96.9	70-130			
o-Xylene	0.0475	0.00200	"	0.0500	ND	94.9	70-130			
Toluene	0.0485	0.00200	"	0.0500	ND	96.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1H3114 - EPA 5030 (soil)										
Matrix Spike Dup (B1H3114-MSD1)			Source: Y108621-14			Prepared: 08/31/2021 Analyzed: 08/31/2021				
1,2,4-Trimethylbenzene	0.0484	0.00200	mg/kg	0.0500	ND	96.9	70-130	4.43	20	
Naphthalene	0.0467	0.0100	"	0.0500	ND	93.3	70-130	6.19	20	
1,3,5-Trimethylbenzene	0.0464	0.00200	"	0.0500	ND	92.7	70-130	2.05	20	
Benzene	0.0446	0.00200	"	0.0500	ND	89.2	70-130	1.58	20	
Ethylbenzene	0.0476	0.00200	"	0.0500	ND	95.2	70-130	3.51	20	
m,p-Xylene	0.100	0.00400	"	0.100	ND	100	70-130	3.29	20	
o-Xylene	0.0489	0.00200	"	0.0500	ND	97.8	70-130	2.99	20	
Toluene	0.0505	0.00200	"	0.0500	ND	101	70-130	4.16	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.6	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1H3122 - EPA 3550B										
Blank (B1H3122-BLK1)					Prepared: 08/31/2021 Analyzed: 08/31/2021					
Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	40		"	50.0		79.8	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 - Wells Ranch AA #21-04

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 B1H3122 - EPA 3550B

LCS (B1H3122-BS1)

Prepared: 08/31/2021 Analyzed: 08/31/2021

Diesel (C10-C28)	857	50.0	mg/kg	1000		85.7	70-130			
Residual Range Organics (C28-C40)	868	200	"	1000		86.8	70-130			
Surrogate: o-Terphenyl	41		"	50.0		82.8	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 - Wells Ranch AA #21-04

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 B1H3122 - EPA 3550B

Matrix Spike (B1H3122-MS1)		Source: Y108633-01			Prepared: 08/31/2021 Analyzed: 08/31/2021					
Diesel (C10-C28)	934	50.0	mg/kg	1000	50.0	88.4	70-130			
Residual Range Organics (C28-C40)	971	200	"	1000	27.1	94.3	70-130			
Surrogate: o-Terphenyl	42		"	50.0		84.6	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 - Wells Ranch AA #21-04

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 B1H3122 - EPA 3550B

Matrix Spike Dup (B1H3122-MSD1)		Source: Y108633-01			Prepared: 08/31/2021 Analyzed: 08/31/2021					
Diesel (C10-C28)	942	50.0	mg/kg	1000	50.0	89.2	70-130	0.866	35	
Residual Range Organics (C28-C40)	975	200	"	1000	27.1	94.8	70-130	0.452	35	
Surrogate: o-Terphenyl	45		"	50.0		89.5	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 - Wells Ranch AA #21-04

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 B1H3123 - EPA 5030 (soil)										
Blank (B1H3123-BLK1)					Prepared: 08/31/2021 Analyzed: 08/31/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	109		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.6		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	98.7		70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1H3123 - EPA 5030 (soil)

LCS (B1H3123-BS1)

Prepared: 08/31/2021 Analyzed: 08/31/2021

1,2,4-Trimethylbenzene	0.0534	0.00200	mg/kg	0.0500		107	70-130			
Naphthalene	0.0523	0.0100	"	0.0500		105	70-130			
1,3,5-Trimethylbenzene	0.0519	0.00200	"	0.0500		104	70-130			
Benzene	0.0458	0.00200	"	0.0500		91.6	70-130			
Ethylbenzene	0.0515	0.00200	"	0.0500		103	70-130			
m,p-Xylene	0.109	0.00400	"	0.100		109	70-130			
o-Xylene	0.0533	0.00200	"	0.0500		107	70-130			
Toluene	0.0544	0.00200	"	0.0500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1H3123 - EPA 5030 (soil)

Matrix Spike (B1H3123-MS1)		Source: Y108635-01			Prepared: 08/31/2021 Analyzed: 08/31/2021					
1,2,4-Trimethylbenzene	0.0545	0.00200	mg/kg	0.0500	ND	109	70-130			
Naphthalene	0.0584	0.0100	"	0.0500	ND	117	70-130			
1,3,5-Trimethylbenzene	0.0528	0.00200	"	0.0500	ND	106	70-130			
Benzene	0.0477	0.00200	"	0.0500	ND	95.5	70-130			
Ethylbenzene	0.0501	0.00200	"	0.0500	ND	100	70-130			
m,p-Xylene	0.105	0.00400	"	0.100	ND	105	70-130			
o-Xylene	0.0525	0.00200	"	0.0500	ND	105	70-130			
Toluene	0.0492	0.00200	"	0.0500	ND	98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.3	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1H3123 - EPA 5030 (soil)

Matrix Spike Dup (B1H3123-MSD1)		Source: Y108635-01			Prepared: 08/31/2021 Analyzed: 08/31/2021					
1,2,4-Trimethylbenzene	0.0513	0.00200	mg/kg	0.0500	ND	103	70-130	5.98	20	
Naphthalene	0.0550	0.0100	"	0.0500	ND	110	70-130	5.93	20	
1,3,5-Trimethylbenzene	0.0501	0.00200	"	0.0500	ND	100	70-130	5.29	20	
Benzene	0.0469	0.00200	"	0.0500	ND	93.9	70-130	1.69	20	
Ethylbenzene	0.0486	0.00200	"	0.0500	ND	97.2	70-130	3.00	20	
m,p-Xylene	0.103	0.00400	"	0.100	ND	103	70-130	1.92	20	
o-Xylene	0.0503	0.00200	"	0.0500	ND	101	70-130	4.24	20	
Toluene	0.0481	0.00200	"	0.0500	ND	96.2	70-130	2.18	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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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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 B1I0102 - NO PREP

Duplicate (B1I0102-DUP1)

Source: Y108628-01

Prepared: 09/01/2021 Analyzed: 09/01/2021

pH	9.53		pH Units	9.34		2.01	25
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Batch B1I0104 - NO PREP

Blank (B1I0104-BLK1)

Prepared: 09/01/2021 Analyzed: 09/01/2021

Specific Conductance (EC)	0.00420	0.00500	mmhos/cm
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Duplicate (B1I0104-DUP1)

Source: Y108628-01

Prepared: 09/01/2021 Analyzed: 09/01/2021

Specific Conductance (EC)	2.70	0.00500	mmhos/cm	2.73		0.976	25
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L572147 - 3550B

MSD (L 97642-MSD-L572147)		Source: Y108634-01			Prepared: 09/01/2021 Analyzed: 09/02/2021					
2-Methylnaphthalene	0.0987	0.000542	mg/Kg	0.166	0.000721	59	30-130	4.1	30	
1-Methylnaphthalene	0.0995	0.00048	"	0.166	97642	59.9	30-130	4.9	30	
Fluoranthene	0.116	0.000529	"	0.166	97642	69.8	30-130	4.4	30	
Pyrene	0.116	0.000387	"	0.166	97642	69.8	30-130	5.3	30	
Naphthalene	0.0965	0.000467	"	0.166	97642	58.1	30-130	3.3	30	
Fluorene	0.113	0.000501	"	0.166	97642	68	30-130	5.4	30	
Dibenz(a,h)anthracene	0.138	0.000279	"	0.166	97642	83.1	30-130	5.9	30	
Chrysene	0.117	0.000256	"	0.166	97642	70.4	30-130	3.4	30	
Benzo(k)fluoranthene	0.109	0.000486	"	0.166	97642	65.6	30-130	8.7	30	
Anthracene	0.117	0.000426	"	0.166	97642	70.4	30-130	4.3	30	
Indeno(1,2,3-cd)pyrene	0.139	0.000344	"	0.166	97642	83.7	30-130	6.6	30	
Acenaphthene	0.107	0.000431	"	0.166	97642	64.4	30-130	6.7	30	
Benzo(a)anthracene	0.115	0.000441	"	0.166	97642	69.2	30-130	2.6	30	
Benzo(a)pyrene	0.12	0.000133	"	0.166	97642	72.2	30-130	3.3	30	
Benzo(b)fluoranthene	0.128	0.000138	"	0.166	97642	77.1	30-130	5.6	30	
Surrogate: 4-Terphenyl-d14	65.8		"	0.331	216	65.8	33-122			
Surrogate: Nitrobenzene-d5	59.8		"	0.331	196	59.8	29-110			
Surrogate: 2-Fluorobiphenyl	54.3		"	0.331	174	54.3	33-115			

MS (L 97642-MS-L572147)		Source: Y108634-01			Prepared: 09/01/2021 Analyzed: 09/02/2021					
Benzo(b)fluoranthene	0.121	0.000138	mg/Kg	0.163	97642	74.2	30-130			
Indeno(1,2,3-cd)pyrene	0.13	0.000344	"	0.163	97642	79.7	30-130			
Fluorene	0.107	0.000501	"	0.163	97642	65.6	30-130			
Fluoranthene	0.111	0.000529	"	0.163	97642	68	30-130			
Dibenz(a,h)anthracene	0.13	0.000279	"	0.163	97642	79.7	30-130			
Chrysene	0.113	0.000256	"	0.163	97642	69.3	30-130			
Benzo(k)fluoranthene	0.0999	0.000486	"	0.163	97642	61.2	30-130			

Origins Laboratory, Inc.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L572147 - 3550B

MS (L 97642-MS-L572147)		Source: Y108634-01			Prepared: 09/01/2021 Analyzed: 09/02/2021					
Naphthalene	0.0933	0.000467	mg/Kg	0.163	97642	57.2	30-130			
1-Methylnaphthalene	0.0947	0.00048	"	0.163	97642	58	30-130			
Benzo(a)anthracene	0.112	0.000441	"	0.163	97642	68.7	30-130			
Acenaphthene	0.1	0.000431	"	0.163	97642	61.3	30-130			
Pyrene	0.11	0.000387	"	0.163	97642	67.4	30-130			
2-Methylnaphthalene	0.0947	0.000542	"	0.163	0.000721	57.6	30-130			
Benzo(a)pyrene	0.116	0.000133	"	0.163	97642	71.1	30-130			
Anthracene	0.112	0.000426	"	0.163	97642	68.7	30-130			
Surrogate: 4-Terphenyl-d14	64.4		"	0.326	216	64.4	33-122			
Surrogate: Nitrobenzene-d5	57.9		"	0.326	196	57.9	29-110			
Surrogate: 2-Fluorobiphenyl	52.4		"	0.326	174	52.4	33-115			

LCS (LCS-L572147)

Prepared: 09/01/2021 Analyzed: 09/02/2021

Naphthalene	0.109	0.000467	mg/Kg	0.167		65.2	30-130
Anthracene	0.128	0.000426	"	0.167		76.6	30-130
1-Methylnaphthalene	0.11	0.00048	"	0.167		65.8	30-130
2-Methylnaphthalene	0.108	0.000542	"	0.167		64.6	30-130
Acenaphthene	0.116	0.000431	"	0.167		69.4	30-130
Pyrene	0.128	0.000387	"	0.167		76.6	30-130
Benzo(b)fluoranthene	0.128	0.000138	"	0.167		76.6	30-130
Benzo(a)pyrene	0.135	0.000133	"	0.167		80.8	30-130
Benzo(k)fluoranthene	0.132	0.000486	"	0.167		79	30-130
Fluoranthene	0.128	0.000529	"	0.167		76.6	30-130
Indeno(1,2,3-cd)pyrene	0.148	0.000344	"	0.167		88.6	30-130
Chrysene	0.131	0.000256	"	0.167		78.4	30-130
Dibenz(a,h)anthracene	0.15	0.000279	"	0.167		89.8	30-130
Benzo(a)anthracene	0.132	0.000441	"	0.167		79	30-130

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L572147 - 3550B

LCS (LCS-L572147)

Prepared: 09/01/2021 Analyzed: 09/02/2021

Fluorene	0.123	0.000501	mg/Kg	0.167		73.6	30-130			
Surrogate: Nitrobenzene-d5	75.6		"	0.333		75.6	29-110			
Surrogate: 2-Fluorobiphenyl	63.3		"	0.333		63.3	33-115			
Surrogate: 4-Terphenyl-d14	75.9		"	0.333		75.9	33-122			

LRB (LRB-L572147)

Prepared: 09/01/2021 Analyzed: 09/02/2021

Benzo(a)pyrene	ND	0.00067	mg/Kg				-			
Naphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	68.1		"	0.333		68.1	29-110			
Surrogate: 4-Terphenyl-d14	75.3		"	0.333		75.3	33-122			
Surrogate: 2-Fluorobiphenyl	61.2		"	0.333		61.2	33-115			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L572102 - 3050B

MSD (L 97658-MSD-L572102)			Source: 97658			Prepared: 09/01/2021 Analyzed: 09/02/2021				
Copper	14.9	0.0806	mg/Kg	2.5	15	NR	75-125	22	80	*
Silver	0.511	0.0067	"	0.499	0.0666	102	75-125	5.1	80	
Selenium	4.22	0.103	"	4.99	0.715	70	75-125	9.1	80	*
Lead	16.1	0.031	"	2.5	15	44	75-125	12.2	80	*
Zinc	61	0.534	"	25	35	104	75-125	10.5	80	
Cadmium	0.664	0.0259	"	0.499	0.242	133	75-125	5.1	80	*
Barium	43.1	0.042	"	4.99	45	NR	75-125	41.6	80	*
Arsenic	4.57	0.0855	"	2.5	2.4	87	75-125	38.3	80	
Nickel	10.9	0.0633	"	2.5	8.34	103	75-125	15.2	80	
MS (L 97658-MS-L572102)			Source: 97658			Prepared: 09/01/2021 Analyzed: 09/02/2021				
Zinc	54.9	0.534	mg/Kg	24.5	35	81	75-125			
Silver	0.538	0.0067	"	0.49	0.0666	110	75-125			
Selenium	3.85	0.103	"	4.9	0.715	64	75-125			*
Nickel	12.7	0.0633	"	2.45	8.34	178	75-125			*
Lead	18.2	0.031	"	2.45	15	131	75-125			*
Copper	18.6	0.0806	"	2.45	15	147	75-125			*
Cadmium	0.699	0.0259	"	0.49	0.242	143	75-125			*
Arsenic	3.1	0.0855	"	2.45	2.4	29	75-125			*
Barium	65.8	0.042	"	4.9	45	425	75-125			*
LCS (LCS-L572102)			Prepared: 09/01/2021 Analyzed: 09/02/2021							
Arsenic	2.54	0.0855	mg/Kg	2.5		102	80-120			
Zinc	23.6	0.534	"	25		94	80-120			
Barium	4.92	0.042	"	5		98	80-120			
Cadmium	0.447	0.0259	"	0.5		89	80-120			
Copper	2.4	0.0806	"	2.5		96	80-120			

Origins Laboratory, Inc.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L572102 - 3050B

LCS (LCS-L572102)

Prepared: 09/01/2021 Analyzed: 09/02/2021

Lead	2.47	0.031	mg/Kg	2.5		99	80-120			
Nickel	2.34	0.0633	"	2.5		94	80-120			
Selenium	5.1	0.103	"	5		102	80-120			
Silver	0.484	0.0067	"	0.5		97	80-120			

LRB (LRB-L572102)

Prepared: 09/01/2021 Analyzed: 09/02/2021

Arsenic	ND	0.25	mg/Kg				-			
Selenium	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

Total Metals by 7196A - Quality Control Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L572293 -										
DUP (L 97642-DUP)		Source: Y108634-01			Prepared: Analyzed: 09/02/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		97642	-		0	20	
MS (L 97642-MS)		Source: Y108634-01			Prepared: Analyzed: 09/02/2021					
Chromium, Hexavalent	6.13	0.246	mg/Kg	8.11	97642	76	75-125			
LCS (LCS)					Prepared: Analyzed: 09/02/2021					
Chromium, Hexavalent	6.42	0.244	mg/Kg	8		80	75-125			
LRB (LRB)					Prepared: Analyzed: 09/02/2021					
Chromium, Hexavalent	0.251	0.5	mg/Kg				-			J

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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 - Wells Ranch AA #21-04

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.

Origins Laboratory, Inc.



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September 14, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Wells Ranch AA #21-04

Project Number - [none]

Attached are your analytical results for Noble - Wells Ranch AA #21-04 received by Origins Laboratory, Inc. September 01, 2021. This project is associated with Origins project number Y109025-01.

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 - Wells Ranch AA #21-04

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-36@0.25'-0.5'	Y109025-01	Soil	September 1, 2021 12:16	09/01/2021 14:02

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4100025

Client: Eagle Environmental
Client Project ID: Wells Ranch AA #21

Checklist Completed by: KH
Date/time completed: 9/1/21

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

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

Cooler Number/Temperature: 1 / 5.3 °C _____ °C _____ °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<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: [Signature] (Project Manager) Date/Time Reviewed: 9/1/21

Origins Laboratory, Inc.

[Signature]

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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 - Wells Ranch AA #21-04

SS-36@0.25'-0.5'
9/1/2021 12:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109025-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.537	0.199	mg/L	1	B110210	09/02/2021	09/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B110112	09/01/2021	09/01/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	66.3 %	50-150	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B110111	"	09/01/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130	"	"	"
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-36@0.25'-0.5'
9/1/2021 12:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109025-01 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	95.2 %		70-130			B11011 1	09/01/2021	09/01/2021	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	2.29		0.499	meq/L	10	[CALC]	09/02/2021	09/02/2021	
Magnesium	1.07		0.823	"	"	"	"	"	
Sodium	1.23		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00191	0.00048	0.00067	mg/Kg	1	L572431	09/03/2021	09/03/2021	
2-Methylnaphthalene	0.00283	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00033	0.000133	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.000138	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.0007	0.000256	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	
Fluorene	0.00101	0.000501	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-36@0.25'-0.5'
9/1/2021 12:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y109025-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	mg/Kg	1	L572431	09/03/2021	09/03/2021
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"
Pyrene	ND	0.000387	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	63 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	75.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	72.1 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.58	pH Units	1	B110204	09/02/2021	09/02/2021
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SAR by 20B Saturated Paste

SAR	0.950	SAR	1	B110208	09/02/2021	09/02/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.549	0.00500	mmhos/cm	1	B110206	09/02/2021	09/02/2021
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Total Metals by 6020B

Arsenic	1.61	0.0855	0.25	mg/Kg	5	L572418	09/03/2021	09/03/2021
Barium	42.7	0.042	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

SS-36@0.25'-0.5'
9/1/2021 12:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y109025-01 (Soil)

Total Metals by 6020B

Cadmium	0.115	0.0259	0.25	mg/Kg	5	L572418	09/03/2021	09/03/2021	J
Copper	5.37	0.0806	0.25	"	"	"	"	"	
Lead	4.83	0.031	0.25	"	"	"	"	"	
Nickel	3.82	0.0633	0.25	"	"	"	"	"	
Selenium	0.219	0.103	0.25	"	"	"	"	"	J
Silver	0.0194	0.0067	0.25	"	"	"	"	"	J
Zinc	27.5	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	2.48	5.08	mg/Kg	10	L572664	09/01/2021	09/07/2021	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1I0111 - EPA 5030 (soil)										
Blank (B1I0111-BLK1)					Prepared: 09/01/2021 Analyzed: 09/01/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1I0111 - EPA 5030 (soil)

LCS (B1I0111-BS1)

Prepared: 09/01/2021 Analyzed: 09/01/2021

1,2,4-Trimethylbenzene	0.0486	0.00200	mg/kg	0.0500		97.3	70-130			
Naphthalene	0.0522	0.0100	"	0.0500		104	70-130			
1,3,5-Trimethylbenzene	0.0462	0.00200	"	0.0500		92.5	70-130			
Benzene	0.0489	0.00200	"	0.0500		97.7	70-130			
Ethylbenzene	0.0473	0.00200	"	0.0500		94.6	70-130			
m,p-Xylene	0.0998	0.00400	"	0.100		99.8	70-130			
o-Xylene	0.0502	0.00200	"	0.0500		100	70-130			
Toluene	0.0537	0.00200	"	0.0500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B110111 - EPA 5030 (soil)

Matrix Spike (B110111-MS1)		Source: Y109002-01			Prepared: 09/01/2021 Analyzed: 09/01/2021					
1,2,4-Trimethylbenzene	0.0481	0.00200	mg/kg	0.0500	ND	96.2	70-130			
Naphthalene	0.0534	0.0100	"	0.0500	ND	107	70-130			
1,3,5-Trimethylbenzene	0.0474	0.00200	"	0.0500	ND	94.9	70-130			
Benzene	0.0560	0.00200	"	0.0500	ND	112	70-130			
Ethylbenzene	0.0488	0.00200	"	0.0500	ND	97.6	70-130			
m,p-Xylene	0.0990	0.00400	"	0.100	ND	99.0	70-130			
o-Xylene	0.0508	0.00200	"	0.0500	ND	102	70-130			
Toluene	0.0494	0.00200	"	0.0500	ND	98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1I0111 - EPA 5030 (soil)										
Matrix Spike Dup (B1I0111-MSD1)	Source: Y109002-01				Prepared: 09/01/2021 Analyzed: 09/01/2021					
1,2,4-Trimethylbenzene	0.0449	0.00200	mg/kg	0.0500	ND	89.8	70-130	6.84	20	
Naphthalene	0.0493	0.0100	"	0.0500	ND	98.6	70-130	8.06	20	
1,3,5-Trimethylbenzene	0.0448	0.00200	"	0.0500	ND	89.5	70-130	5.81	20	
Benzene	0.0534	0.00200	"	0.0500	ND	107	70-130	4.68	20	
Ethylbenzene	0.0465	0.00200	"	0.0500	ND	93.0	70-130	4.78	20	
m,p-Xylene	0.0941	0.00400	"	0.100	ND	94.1	70-130	5.12	20	
o-Xylene	0.0483	0.00200	"	0.0500	ND	96.6	70-130	5.00	20	
Toluene	0.0470	0.00200	"	0.0500	ND	94.0	70-130	4.98	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1I0112 - EPA 3550B										
Blank (B1I0112-BLK1)					Prepared: 09/01/2021 Analyzed: 09/01/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	25.0		74.9	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1I0112 - EPA 3550B

LCS (B1I0112-BS1)

Prepared: 09/01/2021 Analyzed: 09/01/2021

Diesel (C10-C28)	803	50.0	mg/kg	1000		80.3	70-130			
Residual Range Organics (C28-C40)	865	200	"	1000		86.5	70-130			
Surrogate: o-Terphenyl	40		"	50.0		80.4	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1I0112 - EPA 3550B

Matrix Spike (B1I0112-MS1)		Source: Y109002-01			Prepared: 09/01/2021 Analyzed: 09/01/2021					
Diesel (C10-C28)	901	50.0	mg/kg	1000	ND	90.1	70-130			
Residual Range Organics (C28-C40)	898	200	"	1000	ND	89.8	70-130			
Surrogate: o-Terphenyl	39		"	50.0		77.9	50-150			

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B110112 - EPA 3550B

Matrix Spike Dup (B110112-MSD1)		Source: Y109002-01			Prepared: 09/01/2021 Analyzed: 09/01/2021					
Diesel (C10-C28)	852	50.0	mg/kg	1000	ND	85.2	70-130	5.57	35	
Residual Range Organics (C28-C40)	828	200	"	1000	ND	82.8	70-130	8.10	35	
Surrogate: o-Terphenyl	39		"	50.0		78.2	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 - Wells Ranch AA #21-04

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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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 B1I0204 - NO PREP

Duplicate (B1I0204-DUP1)

Source: Y109008-01

Prepared: 09/02/2021 Analyzed: 09/02/2021

pH	6.17		pH Units	6.28		1.77	25
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Batch B1I0206 - NO PREP

Blank (B1I0206-BLK1)

Prepared: 09/02/2021 Analyzed: 09/02/2021

Specific Conductance (EC)	0.00310	0.00500	mmhos/cm
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Duplicate (B1I0206-DUP1)

Source: Y109008-01

Prepared: 09/02/2021 Analyzed: 09/02/2021

Specific Conductance (EC)	0.0855	0.00500	mmhos/cm	0.0886		3.56	25
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L572431 - 3550B

MSD (L 97625-MSD-L572431)		Source: 97625			Prepared: 09/03/2021 Analyzed: 09/03/2021					
Anthracene	0.122	0.000426	mg/Kg	0.166	97625	73.4	30-130	3.3	30	
Dibenz(a,h)anthracene	0.14	0.000279	"	0.166	0.000551	84.3	30-130	4.3	30	
Pyrene	0.122	0.000387	"	0.166	97625	73.4	30-130	2.4	30	
Naphthalene	0.104	0.000467	"	0.166	97625	62.6	30-130	2.9	30	
Indeno(1,2,3-cd)pyrene	0.142	0.000344	"	0.166	0.000484	85.5	30-130	7.2	30	
Fluorene	0.119	0.000501	"	0.166	97625	71.6	30-130	4.2	30	
Fluoranthene	0.122	0.000529	"	0.166	97625	73.4	30-130	1.6	30	
Benzo(a)pyrene	0.126	0.000133	"	0.166	0.000296	75.9	30-130	2.3	30	
1-Methylnaphthalene	0.106	0.00048	"	0.166	97625	63.8	30-130	4.8	30	
Chrysene	0.128	0.000256	"	0.166	97625	77.1	30-130	2.3	30	
2-Methylnaphthalene	0.105	0.000542	"	0.166	97625	63.2	30-130	4.8	30	
Acenaphthene	0.114	0.000431	"	0.166	97625	68.6	30-130	5.4	30	
Benzo(a)anthracene	0.127	0.000441	"	0.166	97625	76.5	30-130	0.7	30	
Benzo(b)fluoranthene	0.126	0.000138	"	0.166	97625	75.9	30-130	3.1	30	
Benzo(k)fluoranthene	0.125	0.000486	"	0.166	97625	75.3	30-130	8.3	30	
Surrogate: Nitrobenzene-d5	69.2		"	0.332	211	69.2	29-110			
Surrogate: 2-Fluorobiphenyl	64.1		"	0.332	193	64.1	33-115			
Surrogate: 4-Terphenyl-d14	76.8		"	0.332	224	76.8	33-122			

MS (L 97625-MS-L572431)		Source: 97625			Prepared: 09/03/2021 Analyzed: 09/03/2021					
1-Methylnaphthalene	0.101	0.00048	mg/Kg	0.165	97625	61.2	30-130			
2-Methylnaphthalene	0.1	0.000542	"	0.165	97625	60.6	30-130			
Acenaphthene	0.108	0.000431	"	0.165	97625	65.4	30-130			
Anthracene	0.118	0.000426	"	0.165	97625	71.5	30-130			
Benzo(a)anthracene	0.126	0.000441	"	0.165	97625	76.3	30-130			
Benzo(a)pyrene	0.129	0.000133	"	0.165	0.000296	78.1	30-130			
Benzo(b)fluoranthene	0.13	0.000138	"	0.165	97625	78.7	30-130			

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L572431 - 3550B

MS (L 97625-MS-L572431)		Source: 97625			Prepared: 09/03/2021 Analyzed: 09/03/2021					
Fluoranthene	0.12	0.000529	mg/Kg	0.165	97625	72.7	30-130			
Dibenz(a,h)anthracene	0.134	0.000279	"	0.165	0.000551	81.2	30-130			
Fluorene	0.114	0.000501	"	0.165	97625	69	30-130			
Indeno(1,2,3-cd)pyrene	0.132	0.000344	"	0.165	0.000484	80	30-130			
Naphthalene	0.101	0.000467	"	0.165	97625	61.2	30-130			
Pyrene	0.119	0.000387	"	0.165	97625	72.1	30-130			
Benzo(k)fluoranthene	0.115	0.000486	"	0.165	97625	69.6	30-130			
Chrysene	0.125	0.000256	"	0.165	97625	75.7	30-130			
Surrogate: 2-Fluorobiphenyl	60.9		"	0.33	193	60.9	33-115			
Surrogate: 4-Terphenyl-d14	75.7		"	0.33	224	75.7	33-122			
Surrogate: Nitrobenzene-d5	69.3		"	0.33	211	69.3	29-110			

LCS (LCS-L572431)

Prepared: 09/03/2021 Analyzed: 09/03/2021

Fluorene	0.125	0.000501	mg/Kg	0.167		74.8	30-130
2-Methylnaphthalene	0.109	0.000542	"	0.167		65.2	30-130
Acenaphthene	0.118	0.000431	"	0.167		70.6	30-130
Benzo(a)anthracene	0.133	0.000441	"	0.167		79.6	30-130
Benzo(a)pyrene	0.137	0.000133	"	0.167		82	30-130
Benzo(b)fluoranthene	0.136	0.000138	"	0.167		81.4	30-130
Benzo(k)fluoranthene	0.133	0.000486	"	0.167		79.6	30-130
Chrysene	0.133	0.000256	"	0.167		79.6	30-130
1-Methylnaphthalene	0.111	0.00048	"	0.167		66.4	30-130
Fluoranthene	0.127	0.000529	"	0.167		76	30-130
Indeno(1,2,3-cd)pyrene	0.168	0.000344	"	0.167		101	30-130
Naphthalene	0.109	0.000467	"	0.167		65.2	30-130
Pyrene	0.128	0.000387	"	0.167		76.6	30-130
Dibenz(a,h)anthracene	0.17	0.000279	"	0.167		102	30-130

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L572431 - 3550B

LCS (LCS-L572431)

Prepared: 09/03/2021 Analyzed: 09/03/2021

Anthracene	0.129	0.000426	mg/Kg	0.167		77.2	30-130			
Surrogate: 2-Fluorobiphenyl	70.2		"	0.333		70.2	33-115			
Surrogate: 4-Terphenyl-d14	84.3		"	0.333		84.3	33-122			
Surrogate: Nitrobenzene-d5	84.3		"	0.333		84.3	29-110			

LRB (LRB-L572431)

Prepared: 09/03/2021 Analyzed: 09/03/2021

Acenaphthene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	62.7		"	0.333		62.7	33-115			
Surrogate: 4-Terphenyl-d14	74.7		"	0.333		74.7	33-122			
Surrogate: Nitrobenzene-d5	70.8		"	0.333		70.8	29-110			

Origins Laboratory, Inc.

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L572418 - 3050B										
MSD (L 98299-MSD-L572418)			Source: 98299		Prepared: 09/03/2021 Analyzed: 09/03/2021					
Barium	124	0.042	mg/Kg	4.92	107	346	75-125	5.8	80	*
Copper	10.4	0.0806	"	2.46	8.2	89	75-125	0	80	
Arsenic	3.89	0.0855	"	2.46	1.85	83	75-125	5	80	
Cadmium	0.733	0.0259	"	0.492	0.289	90	75-125	2.3	80	
Nickel	10.4	0.0633	"	2.46	7.85	104	75-125	1.9	80	
Selenium	4.11	0.103	"	4.92	0.309	77	75-125	11.8	80	
Silver	0.522	0.0067	"	0.492	0.0344	106	75-125	6.7	80	
Zinc	63	0.534	"	24.6	38.4	100	75-125	1.9	80	
Lead	13.6	0.031	"	2.46	10.4	130	75-125	3.7	80	*
MS (L 98299-MS-L572418)			Source: 98299		Prepared: 09/03/2021 Analyzed: 09/03/2021					
Copper	10.4	0.0806	mg/Kg	2.37	8.2	93	75-125			
Lead	13.1	0.031	"	2.37	10.4	114	75-125			
Nickel	10.2	0.0633	"	2.37	7.85	99	75-125			
Selenium	3.65	0.103	"	4.73	0.309	71	75-125			*
Silver	0.488	0.0067	"	0.473	0.0344	103	75-125			
Cadmium	0.716	0.0259	"	0.473	0.289	90	75-125			
Barium	117	0.042	"	4.73	107	211	75-125			*
Arsenic	3.7	0.0855	"	2.37	1.85	78	75-125			
Zinc	61.8	0.534	"	23.7	38.4	99	75-125			
LCS (LCS-L572418)			Prepared: 09/03/2021 Analyzed: 09/03/2021							
Arsenic	2.42	0.0855	mg/Kg	2.5		97	80-120			
Selenium	4.89	0.103	"	5		98	80-120			
Silver	0.52	0.0067	"	0.5		104	80-120			
Zinc	24.5	0.534	"	25		98	80-120			
Lead	2.46	0.031	"	2.5		98	80-120			

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L572418 - 3050B										
LCS (LCS-L572418)					Prepared: 09/03/2021 Analyzed: 09/03/2021					
Copper	2.49	0.0806	mg/Kg	2.5		100	80-120			
Nickel	2.48	0.0633	"	2.5		99	80-120			
Barium	4.77	0.042	"	5		95	80-120			
Cadmium	0.47	0.0259	"	0.5		94	80-120			
LRB (LRB-L572418)					Prepared: 09/03/2021 Analyzed: 09/03/2021					
Selenium	ND	0.25	mg/Kg				-			
Silver	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Zinc	ND	2.5	"				-			

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

Total Metals by 7196A - Quality Control Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L572664 -										
DUP (L 98279-DUP)	Source: 98279				Prepared: Analyzed: 09/07/2021					
Chromium, Hexavalent	ND	1.22	mg/Kg		98279	-		0	20	
MS (L 98279-MS)	Source: 98279				Prepared: Analyzed: 09/07/2021					
Chromium, Hexavalent	ND	2.44	mg/Kg	7.92	98279	0	75-125			*
LCS (LCS)					Prepared: Analyzed: 09/07/2021					
Chromium, Hexavalent	6.53	0.244	mg/Kg	8		82	75-125			
LRB (LRB)					Prepared: Analyzed: 09/07/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg							

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Wells Ranch AA #21-04

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.

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.



September 08, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Wells Ranch AA #21-04

Project Number - [none]

Attached are your analytical results for Noble - Wells Ranch AA #21-04 received by Origins Laboratory, Inc. September 01, 2021. This project is associated with Origins project number Y109026-01.

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 - Wells Ranch AA #21-04

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
STOCKPILE-02@0.25-0.5	Y109026-01	Soil	September 1, 2021 12:20	09/01/2021 14:02

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

ORIGINS

LABORATORY, INC

www.originslaboratory.com

4/09026

page 1 of 1

Client: Eagle Environmental Consulting
Address: 8000 W 44th Ave,
Wheat Ridge, CO, 80033
Telephone Number: 303-433-0474
Email Address: mce3@eagle-enviro.com

Project Manager: Martin Eckert III
Project Name: Wells Ranch AA #21-04
Project Number:
Samples Collected By: BW/LC

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analyst	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa			Other
Sample - 020005-05	9/12/11	1220	2	X					X				1
													2
													3
													4
													5
													6
													7
													8
													9
													10

Relinquished By: *Bye LW* Date: 9/12/11 Time: 1402
Relinquished By: *Bye LW* Date: 9/12/11 Time: 1402

Received By: *Bye LW* Date: 9/12/11 Time: 1402
Received By: *Bye LW* Date: 9/12/11 Time: 1402

Turnaround Time: Same Day ☒ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☐

Temp Received: 5.3

Date Results Needed: 9/12/11

Bye LW

Origins Laboratory, Inc.

Jordan A. Merrill

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 - Wells Ranch AA #21-04

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

Sample Receipt Checklist

Origins Work Order: 4109026 Client: Eagle Environmental
Client Project ID: Wells Ranch

Checklist Completed by: KH Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 9/11/21 Airbill #: NA

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

Cooler Number/Temperature: 1 15-3 °C / _____ °C / _____ °C / _____ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<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]

Date/Time Reviewed 9/11/21

Origins Laboratory, Inc.

[Signature]

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

STOCKPILE-02@0.25-0.5

9/1/2021 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y109026-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.462	0.201	mg/kg	1	B110210	09/02/2021	09/02/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B110112	09/01/2021	09/01/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	66.1 %	50-150			"	"	"	
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B110111	"	09/01/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.4 %	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, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

STOCKPILE-02@0.25-0.5

9/1/2021 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y109026-01 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	95.3 %		70-130			B11011 1	09/01/2021	09/01/2021	
Surrogate: 4-Bromofluorobenzene	99.7 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	2.67		0.499	meq/L	10	[CALC]	09/02/2021	09/02/2021	
Magnesium	1.23		0.823	"	"	"	"	"	
Sodium	1.92		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00182	0.00048	0.00067	mg/Kg	1	L572431	09/03/2021	09/03/2021	
2-Methylnaphthalene	0.00265	0.000542	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000431	0.00067	"	"	"	"	"	
Anthracene	ND	0.000426	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000441	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000287	0.000133	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.000332	0.000138	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.000486	0.00067	"	"	"	"	"	
Chrysene	0.000328	0.000256	0.00067	"	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.000279	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000529	0.00067	"	"	"	"	"	
Fluorene	0.000673	0.000501	0.00067	"	"	"	"	"	

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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 - Wells Ranch AA #21-04

STOCKPILE-02@0.25-0.5

9/1/2021 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y109026-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000344	0.00067	mg/Kg	1	L572431	09/03/2021	09/03/2021	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.000387	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	62.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	75.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	70.4 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.49			pH Units	1	B110204	09/02/2021	09/02/2021	
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SAR by 20B Saturated Paste

SAR	1.38			SAR	1	B110208	09/02/2021	09/02/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.589		0.00500	mmhos/cm	1	B110206	09/02/2021	09/02/2021	
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Total Metals by 6020B

Arsenic	1.65	0.0855	0.25	mg/Kg	5	L572418	09/03/2021	09/03/2021	
Barium	93	0.042	0.25	"	"	"	"	"	

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

STOCKPILE-02@0.25-0.5

9/1/2021 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.

Y109026-01 (Soil)

Total Metals by 6020B

Cadmium	0.116	0.0259	0.25	mg/Kg	5	L572418	09/03/2021	09/03/2021	J
Copper	5.6	0.0806	0.25	"	"	"	"	"	
Lead	9.5	0.031	0.25	"	"	"	"	"	
Nickel	3.48	0.0633	0.25	"	"	"	"	"	
Selenium	0.191	0.103	0.25	"	"	"	"	"	J
Silver	0.0186	0.0067	0.25	"	"	"	"	"	J
Zinc	26.2	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	1.22	2.5	mg/Kg	5	L572664	09/01/2021	09/07/2021	
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8000 W 44th Ave
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Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1I0111 - EPA 5030 (soil)										
Blank (B1I0111-BLK1)					Prepared: 09/01/2021 Analyzed: 09/01/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1I0111 - EPA 5030 (soil)

LCS (B1I0111-BS1)

Prepared: 09/01/2021 Analyzed: 09/01/2021

1,2,4-Trimethylbenzene	0.0486	0.00200	mg/kg	0.0500		97.3	70-130			
Naphthalene	0.0522	0.0100	"	0.0500		104	70-130			
1,3,5-Trimethylbenzene	0.0462	0.00200	"	0.0500		92.5	70-130			
Benzene	0.0489	0.00200	"	0.0500		97.7	70-130			
Ethylbenzene	0.0473	0.00200	"	0.0500		94.6	70-130			
m,p-Xylene	0.0998	0.00400	"	0.100		99.8	70-130			
o-Xylene	0.0502	0.00200	"	0.0500		100	70-130			
Toluene	0.0537	0.00200	"	0.0500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B110111 - EPA 5030 (soil)

Matrix Spike (B110111-MS1)		Source: Y109002-01			Prepared: 09/01/2021 Analyzed: 09/01/2021					
1,2,4-Trimethylbenzene	0.0481	0.00200	mg/kg	0.0500	ND	96.2	70-130			
Naphthalene	0.0534	0.0100	"	0.0500	ND	107	70-130			
1,3,5-Trimethylbenzene	0.0474	0.00200	"	0.0500	ND	94.9	70-130			
Benzene	0.0560	0.00200	"	0.0500	ND	112	70-130			
Ethylbenzene	0.0488	0.00200	"	0.0500	ND	97.6	70-130			
m,p-Xylene	0.0990	0.00400	"	0.100	ND	99.0	70-130			
o-Xylene	0.0508	0.00200	"	0.0500	ND	102	70-130			
Toluene	0.0494	0.00200	"	0.0500	ND	98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1I0111 - EPA 5030 (soil)										
Matrix Spike Dup (B1I0111-MSD1)	Source: Y109002-01				Prepared: 09/01/2021 Analyzed: 09/01/2021					
1,2,4-Trimethylbenzene	0.0449	0.00200	mg/kg	0.0500	ND	89.8	70-130	6.84	20	
Naphthalene	0.0493	0.0100	"	0.0500	ND	98.6	70-130	8.06	20	
1,3,5-Trimethylbenzene	0.0448	0.00200	"	0.0500	ND	89.5	70-130	5.81	20	
Benzene	0.0534	0.00200	"	0.0500	ND	107	70-130	4.68	20	
Ethylbenzene	0.0465	0.00200	"	0.0500	ND	93.0	70-130	4.78	20	
m,p-Xylene	0.0941	0.00400	"	0.100	ND	94.1	70-130	5.12	20	
o-Xylene	0.0483	0.00200	"	0.0500	ND	96.6	70-130	5.00	20	
Toluene	0.0470	0.00200	"	0.0500	ND	94.0	70-130	4.98	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1I0112 - EPA 3550B										
Blank (B1I0112-BLK1)					Prepared: 09/01/2021 Analyzed: 09/01/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	25.0		74.9	50-150			

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Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1I0112 - EPA 3550B										
LCS (B1I0112-BS1)					Prepared: 09/01/2021 Analyzed: 09/01/2021					
Diesel (C10-C28)	803	50.0	mg/kg	1000		80.3	70-130			
Residual Range Organics (C28-C40)	865	200	"	1000		86.5	70-130			
Surrogate: o-Terphenyl	40		"	50.0		80.4	50-150			

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Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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 B1I0112 - EPA 3550B

Matrix Spike (B1I0112-MS1)		Source: Y109002-01			Prepared: 09/01/2021 Analyzed: 09/01/2021					
Diesel (C10-C28)	901	50.0	mg/kg	1000	ND	90.1	70-130			
Residual Range Organics (C28-C40)	898	200	"	1000	ND	89.8	70-130			
Surrogate: o-Terphenyl	39		"	50.0		77.9	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 - Wells Ranch AA #21-04

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 B1I0112 - EPA 3550B

Matrix Spike Dup (B1I0112-MSD1)		Source: Y109002-01			Prepared: 09/01/2021 Analyzed: 09/01/2021					
Diesel (C10-C28)	852	50.0	mg/kg	1000	ND	85.2	70-130	5.57	35	
Residual Range Organics (C28-C40)	828	200	"	1000	ND	82.8	70-130	8.10	35	
Surrogate: o-Terphenyl	39		"	50.0		78.2	50-150			

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Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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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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 B1I0204 - NO PREP

Duplicate (B1I0204-DUP1)

Source: Y109008-01

Prepared: 09/02/2021 Analyzed: 09/02/2021

pH	6.17		pH Units	6.28		1.77	25
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Batch B1I0206 - NO PREP

Blank (B1I0206-BLK1)

Prepared: 09/02/2021 Analyzed: 09/02/2021

Specific Conductance (EC)	0.00310	0.00500	mmhos/cm
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Duplicate (B1I0206-DUP1)

Source: Y109008-01

Prepared: 09/02/2021 Analyzed: 09/02/2021

Specific Conductance (EC)	0.0855	0.00500	mmhos/cm	0.0886		3.56	25
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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 - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L572431 - 3550B

MSD (L 97625-MSD-L572431)		Source: 97625			Prepared: 09/03/2021 Analyzed: 09/03/2021					
Anthracene	0.122	0.000426	mg/Kg	0.166	97625	73.4	30-130	3.3	30	
Dibenz(a,h)anthracene	0.14	0.000279	"	0.166	0.000551	84.3	30-130	4.3	30	
Pyrene	0.122	0.000387	"	0.166	97625	73.4	30-130	2.4	30	
Naphthalene	0.104	0.000467	"	0.166	97625	62.6	30-130	2.9	30	
Indeno(1,2,3-cd)pyrene	0.142	0.000344	"	0.166	0.000484	85.5	30-130	7.2	30	
Fluorene	0.119	0.000501	"	0.166	97625	71.6	30-130	4.2	30	
Fluoranthene	0.122	0.000529	"	0.166	97625	73.4	30-130	1.6	30	
Benzo(a)pyrene	0.126	0.000133	"	0.166	0.000296	75.9	30-130	2.3	30	
1-Methylnaphthalene	0.106	0.00048	"	0.166	97625	63.8	30-130	4.8	30	
Chrysene	0.128	0.000256	"	0.166	97625	77.1	30-130	2.3	30	
2-Methylnaphthalene	0.105	0.000542	"	0.166	97625	63.2	30-130	4.8	30	
Acenaphthene	0.114	0.000431	"	0.166	97625	68.6	30-130	5.4	30	
Benzo(a)anthracene	0.127	0.000441	"	0.166	97625	76.5	30-130	0.7	30	
Benzo(b)fluoranthene	0.126	0.000138	"	0.166	97625	75.9	30-130	3.1	30	
Benzo(k)fluoranthene	0.125	0.000486	"	0.166	97625	75.3	30-130	8.3	30	
Surrogate: Nitrobenzene-d5	69.2		"	0.332	211	69.2	29-110			
Surrogate: 2-Fluorobiphenyl	64.1		"	0.332	193	64.1	33-115			
Surrogate: 4-Terphenyl-d14	76.8		"	0.332	224	76.8	33-122			

MS (L 97625-MS-L572431)		Source: 97625			Prepared: 09/03/2021 Analyzed: 09/03/2021					
1-Methylnaphthalene	0.101	0.00048	mg/Kg	0.165	97625	61.2	30-130			
2-Methylnaphthalene	0.1	0.000542	"	0.165	97625	60.6	30-130			
Acenaphthene	0.108	0.000431	"	0.165	97625	65.4	30-130			
Anthracene	0.118	0.000426	"	0.165	97625	71.5	30-130			
Benzo(a)anthracene	0.126	0.000441	"	0.165	97625	76.3	30-130			
Benzo(a)pyrene	0.129	0.000133	"	0.165	0.000296	78.1	30-130			
Benzo(b)fluoranthene	0.13	0.000138	"	0.165	97625	78.7	30-130			

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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 - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L572431 - 3550B

MS (L 97625-MS-L572431)		Source: 97625			Prepared: 09/03/2021 Analyzed: 09/03/2021					
Fluoranthene	0.12	0.000529	mg/Kg	0.165	97625	72.7	30-130			
Dibenz(a,h)anthracene	0.134	0.000279	"	0.165	0.000551	81.2	30-130			
Fluorene	0.114	0.000501	"	0.165	97625	69	30-130			
Indeno(1,2,3-cd)pyrene	0.132	0.000344	"	0.165	0.000484	80	30-130			
Naphthalene	0.101	0.000467	"	0.165	97625	61.2	30-130			
Pyrene	0.119	0.000387	"	0.165	97625	72.1	30-130			
Benzo(k)fluoranthene	0.115	0.000486	"	0.165	97625	69.6	30-130			
Chrysene	0.125	0.000256	"	0.165	97625	75.7	30-130			
Surrogate: 2-Fluorobiphenyl	60.9		"	0.33	193	60.9	33-115			
Surrogate: 4-Terphenyl-d14	75.7		"	0.33	224	75.7	33-122			
Surrogate: Nitrobenzene-d5	69.3		"	0.33	211	69.3	29-110			

LCS (LCS-L572431)		Prepared: 09/03/2021 Analyzed: 09/03/2021								
Fluorene	0.125	0.000501	mg/Kg	0.167		74.8	30-130			
2-Methylnaphthalene	0.109	0.000542	"	0.167		65.2	30-130			
Acenaphthene	0.118	0.000431	"	0.167		70.6	30-130			
Benzo(a)anthracene	0.133	0.000441	"	0.167		79.6	30-130			
Benzo(a)pyrene	0.137	0.000133	"	0.167		82	30-130			
Benzo(b)fluoranthene	0.136	0.000138	"	0.167		81.4	30-130			
Benzo(k)fluoranthene	0.133	0.000486	"	0.167		79.6	30-130			
Chrysene	0.133	0.000256	"	0.167		79.6	30-130			
1-Methylnaphthalene	0.111	0.00048	"	0.167		66.4	30-130			
Fluoranthene	0.127	0.000529	"	0.167		76	30-130			
Indeno(1,2,3-cd)pyrene	0.168	0.000344	"	0.167		101	30-130			
Naphthalene	0.109	0.000467	"	0.167		65.2	30-130			
Pyrene	0.128	0.000387	"	0.167		76.6	30-130			
Dibenz(a,h)anthracene	0.17	0.000279	"	0.167		102	30-130			

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L572431 - 3550B

LCS (LCS-L572431)

Prepared: 09/03/2021 Analyzed: 09/03/2021

Anthracene	0.129	0.000426	mg/Kg	0.167		77.2	30-130			
Surrogate: 2-Fluorobiphenyl	70.2		"	0.333		70.2	33-115			
Surrogate: 4-Terphenyl-d14	84.3		"	0.333		84.3	33-122			
Surrogate: Nitrobenzene-d5	84.3		"	0.333		84.3	29-110			

LRB (LRB-L572431)

Prepared: 09/03/2021 Analyzed: 09/03/2021

Acenaphthene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	62.7		"	0.333		62.7	33-115			
Surrogate: 4-Terphenyl-d14	74.7		"	0.333		74.7	33-122			
Surrogate: Nitrobenzene-d5	70.8		"	0.333		70.8	29-110			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L572418 - 3050B										
MSD (L 98299-MSD-L572418)			Source: 98299		Prepared: 09/03/2021 Analyzed: 09/03/2021					
Barium	124	0.042	mg/Kg	4.92	107	346	75-125	5.8	80	*
Copper	10.4	0.0806	"	2.46	8.2	89	75-125	0	80	
Arsenic	3.89	0.0855	"	2.46	1.85	83	75-125	5	80	
Cadmium	0.733	0.0259	"	0.492	0.289	90	75-125	2.3	80	
Nickel	10.4	0.0633	"	2.46	7.85	104	75-125	1.9	80	
Selenium	4.11	0.103	"	4.92	0.309	77	75-125	11.8	80	
Silver	0.522	0.0067	"	0.492	0.0344	106	75-125	6.7	80	
Zinc	63	0.534	"	24.6	38.4	100	75-125	1.9	80	
Lead	13.6	0.031	"	2.46	10.4	130	75-125	3.7	80	*
MS (L 98299-MS-L572418)			Source: 98299		Prepared: 09/03/2021 Analyzed: 09/03/2021					
Copper	10.4	0.0806	mg/Kg	2.37	8.2	93	75-125			
Lead	13.1	0.031	"	2.37	10.4	114	75-125			
Nickel	10.2	0.0633	"	2.37	7.85	99	75-125			
Selenium	3.65	0.103	"	4.73	0.309	71	75-125			*
Silver	0.488	0.0067	"	0.473	0.0344	103	75-125			
Cadmium	0.716	0.0259	"	0.473	0.289	90	75-125			
Barium	117	0.042	"	4.73	107	211	75-125			*
Arsenic	3.7	0.0855	"	2.37	1.85	78	75-125			
Zinc	61.8	0.534	"	23.7	38.4	99	75-125			
LCS (LCS-L572418)			Prepared: 09/03/2021 Analyzed: 09/03/2021							
Arsenic	2.42	0.0855	mg/Kg	2.5		97	80-120			
Selenium	4.89	0.103	"	5		98	80-120			
Silver	0.52	0.0067	"	0.5		104	80-120			
Zinc	24.5	0.534	"	25		98	80-120			
Lead	2.46	0.031	"	2.5		98	80-120			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L572418 - 3050B										
LCS (LCS-L572418)					Prepared: 09/03/2021 Analyzed: 09/03/2021					
Copper	2.49	0.0806	mg/Kg	2.5		100	80-120			
Nickel	2.48	0.0633	"	2.5		99	80-120			
Barium	4.77	0.042	"	5		95	80-120			
Cadmium	0.47	0.0259	"	0.5		94	80-120			
LRB (LRB-L572418)					Prepared: 09/03/2021 Analyzed: 09/03/2021					
Selenium	ND	0.25	mg/Kg				-			
Silver	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Zinc	ND	2.5	"				-			

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

Total Metals by 7196A - Quality Control Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L572664 -										
DUP (L 98279-DUP)		Source: Y109026-01			Prepared: Analyzed: 09/07/2021					
Chromium, Hexavalent	ND	1.22	mg/Kg		98279	-		0	20	
MS (L 98279-MS)		Source: Y109026-01			Prepared: Analyzed: 09/07/2021					
Chromium, Hexavalent	ND	2.44	mg/Kg	7.92	98279	0	75-125			*
LCS (LCS)					Prepared: Analyzed: 09/07/2021					
Chromium, Hexavalent	6.53	0.244	mg/Kg	8		82	75-125			
LRB (LRB)					Prepared: Analyzed: 09/07/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg							

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Wells Ranch AA #21-04

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.

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.



September 14, 2021

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Wells Ranch AA #21-04

Project Number - [none]

Attached are your analytical results for Noble - Wells Ranch AA #21-04 received by Origins Laboratory, Inc. September 07, 2021. This project is associated with Origins project number Y109093-01.

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 - Wells Ranch AA #21-04

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@5.5'	Y109093-01	Soil	September 7, 2021 8:50	09/07/2021 14:12

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4109093

Client: Eagle Environmental
Client Project ID: Wells Ranch AA #21-04

Checklist Completed by: KH
Date/time completed: 9-17-11

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

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

Cooler Number/Temperature: 1 / 3.4 °C / °C / °C (Describe) °C

Thermometer ID: T002

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 checked="" type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽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 checked="" type="checkbox"/>	<input 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) dm Date/Time Reviewed 9-8-21

Origins Laboratory, Inc.

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

Background-01@5.5'

9/7/2021 8:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y109093-01 (Soil)

Metals by Saturated Paste

Calcium	16.2		0.499	meq/L	10	[CALC]	09/08/2021	09/09/2021	
Magnesium	8.64		0.823	"	"	"	"	"	
Sodium	10.6		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.78			pH Units	1	B110801	09/08/2021	09/08/2021	
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SAR by 20B Saturated Paste

SAR	3.02			SAR	1	B110807	09/08/2021	09/09/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.79		0.00500	mmhos/cm	1	B110803	09/08/2021	09/10/2021	
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Total Metals by 6020B

Arsenic	1.57	0.0855	0.25	mg/Kg	5	L573044	09/08/2021	09/09/2021	
Barium	45.8	0.042	0.25	"	"	"	"	"	
Cadmium	0.0679	0.0259	0.25	"	"	"	"	"	J
Copper	2.77	0.0806	0.25	"	"	"	"	"	
Lead	3.36	0.031	0.25	"	"	"	"	"	
Nickel	3.19	0.0633	0.25	"	"	"	"	"	B
Selenium	ND	0.103	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

Background-01@5.5'

9/7/2021 8:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y109093-01 (Soil)

Total Metals by 6020B

Silver	0.0134	0.0067	0.25	mg/Kg	5	L573044	09/08/2021	09/09/2021	J
Zinc	14.7	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L573122	09/07/2021	09/09/2021	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1I0801 - NO PREP										
Duplicate (B1I0801-DUP1)		Source: Y109091-01			Prepared: 09/08/2021 Analyzed: 09/08/2021					
pH	7.61		pH Units		7.35			3.48	25	
Batch B1I0803 - NO PREP										
Blank (B1I0803-BLK1)		Prepared: 09/08/2021 Analyzed: 09/10/2021								
Specific Conductance (EC)	0.00340	0.00500	mmhos/cm							
Duplicate (B1I0803-DUP1)		Source: Y109091-01			Prepared: 09/08/2021 Analyzed: 09/10/2021					
Specific Conductance (EC)	0.508	0.00500	mmhos/cm		0.501			1.35	25	

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L573044 - 3050B										
MSD (L 99723-MSD-L573044)			Source: 99723		Prepared: 09/08/2021 Analyzed: 09/09/2021					
Selenium	3.44	0.103	mg/Kg	4.6	0.103	75	75-125	16	80	
Silver	0.418	0.0067	"	0.46	0.0157	91	75-125	5.8	80	
Nickel	5.2	0.0633	"	2.3	3.28	83	75-125	7.4	80	
Lead	6.18	0.031	"	2.3	3.83	102	75-125	3.4	80	
Copper	4.3	0.0806	"	2.3	2.41	82	75-125	4.1	80	
Cadmium	0.486	0.0259	"	0.46	0.0474	106	75-125	4.2	80	
Barium	63.3	0.042	"	4.6	61.6	37	75-125	2.6	80	*
Arsenic	2.65	0.0855	"	2.3	0.913	75	75-125	7.6	80	
Zinc	34.3	0.534	"	23	13.7	89	75-125	5.3	80	
MS (L 99723-MS-L573044)			Source: 99723		Prepared: 09/08/2021 Analyzed: 09/09/2021					
Zinc	36.2	0.534	mg/Kg	24.6	13.7	91	75-125			
Arsenic	2.86	0.0855	"	2.46	0.913	79	75-125			
Barium	65	0.042	"	4.92	61.6	69	75-125			*
Cadmium	0.507	0.0259	"	0.492	0.0474	103	75-125			
Copper	4.48	0.0806	"	2.46	2.41	84	75-125			
Lead	5.97	0.031	"	2.46	3.83	87	75-125			
Nickel	5.6	0.0633	"	2.46	3.28	94	75-125			
Selenium	4.04	0.103	"	4.92	0.103	82	75-125			
Silver	0.443	0.0067	"	0.492	0.0157	90	75-125			
LCS (LCS-L573044)			Prepared: 09/08/2021 Analyzed: 09/09/2021							
Cadmium	0.497	0.0259	mg/Kg	0.5		99	80-120			
Copper	2.35	0.0806	"	2.5		94	80-120			
Lead	2.34	0.031	"	2.5		94	80-120			
Nickel	2.51	0.0633	"	2.5		100	80-120			
Selenium	4.82	0.103	"	5		96	80-120			

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L573044 - 3050B										
LCS (LCS-L573044)					Prepared: 09/08/2021 Analyzed: 09/09/2021					
Silver	0.49	0.0067	mg/Kg	0.5		98	80-120			
Zinc	23.8	0.534	"	25		95	80-120			
Barium	4.82	0.042	"	5		96	80-120			
Arsenic	2.26	0.0855	"	2.5		90	80-120			
LRB (LRB-L573044)					Prepared: 09/08/2021 Analyzed: 09/09/2021					
Barium	ND	0.25	mg/Kg				-			
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	0.342	0.25	"				-			*
Lead	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Copper	0.0835	0.25	"				-			J

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AA #21-04

Total Metals by 7196A - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L573122 -										
DUP (L 99450-DUP)		Source: 99450			Prepared: Analyzed: 09/09/2021					
Chromium, Hexavalent	ND	0.488	mg/Kg dry		99450	-		0	20	
MS (L 99450-MS)		Source: 99450			Prepared: Analyzed: 09/09/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg dry	7.92	99450	0	75-125			*
LCS (LCS)					Prepared: Analyzed: 09/09/2021					
Chromium, Hexavalent	6.71	0.244	mg/Kg	8		84	75-125			
LRB (LRB)					Prepared: Analyzed: 09/09/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg							

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Wells Ranch AA #21-04

Notes and Definitions

J Estimated Value. Analyte below reported quantitation limit.

B Analyte detected in associated method blank.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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