



December 19, 2019

Mr. Howard Aamold
Noble Energy, Inc.
2115 117th Avenue
Greeley, Colorado 80621

**Soil Assessment Report and No Further Action Recommendation
Hurley H 26-11-E
Surface Release
40.194901 / -104.632106
SW 1/4 NW 1/4 SEC.26 T3N R65W 6PM
Weld County, Colorado
Spill ID 468982**

Dear Mr. Aamold,

Eagle Environmental Consulting, Inc. (EAGLE) is pleased to present this Soil Assessment Report and No Further Action Recommendation (NFAR) for the above referenced site.

1.0 SITE BACKGROUND

On October 31, 2019, during operation, a lease operator discovered a 6-inch, balon valve along a heater treater at the Hurley H 26-11-E facility froze and split. The split released approximately 3 barrels (bbls) of crude outside of containment. The heater treater was shut-in and scheduled for repair. At the time of the release, the groundwater was frozen and little to no vertical migration of petroleum hydrocarbons was observed. On November 8, 2019, following hydrovac soil removal activities, EAGLE was requested by Noble to collect soil samples to determine if adsorbed petroleum hydrocarbon impacts existed above Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 regulatory limits.

The following narrative details soil assessment activities completed at the site.

2.0 SITE DESCRIPTION

The Hurley H 26-11-E site is located within the southwest quarter of the northwest quarter of Section 26, Township 3 north, Range 65 west of the 6th Prime Meridian. The surface release was located at latitude: 40.194901 and longitude: -104.632106. A topographic site location map is presented as Figure 1.

2.1 Site Hydrogeology

The soil lithology observed beneath the release location consists of dense, gravelly sand from the surface to approximately 2.5-feet below ground surface (bgs). Groundwater was not observed during assessment activities.

3.0 ASSESSMENT ACTIVITIES

3.1 Initial Assessment & Excavation Activities

On November 8, 2019, Noble requested EAGLE to perform subsurface assessment activities at the site in response to potential impacts as a result of an unintentional surface release associated with the Hurley H 26-11-E facility. Prior to assessment activities, 1888 Industrial Services, LLC (1888) provided the necessary equipment and personnel to remove and transport petroleum hydrocarbon impacted soil from the site.

EAGLE collected waste characterization/confirmation soil samples (SS-01 through SS-05) beneath and adjacent to the limited excavation. 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 2-ounce glass jar and packed in an iced cooler.

Based on location and PID readings, three (3) confirmation soil samples (SS-01@0.5', SS-02@2.5', and SS-03@1.75') were submitted to Origins Laboratory, Inc. (Origins) located in Denver, Colorado, under standard chain of custody (COC) procedures. The soil samples were analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, total petroleum hydrocarbons – gasoline range organics (TPH-GRO), and total petroleum hydrocarbons – diesel range organics (TPH-DRO) following modified Environmental Protection Agency (EPA) Methods 8260D and 8015D. The soil samples were received within the required holding time for each laboratory analysis.

The final limits of the Hurley H 26-11-E surface release excavation extended approximately 18 feet north to south and 13 feet east to west, beneath and adjacent to the heater treater. The excavation was advanced to a depth ranging from approximately 0.5 to 2.5 feet bgs. Approximately 120 bbls of slurry (~7 cubic yards of soil) were removed via hydrovac and transported offsite for disposal at Republic Services in Commerce City, Colorado.

3.2 Laboratory Analytical Results

Based on laboratory analytical results:

- Confirmation soil samples SS-01@0.5', SS-02@2.5', and SS-03@1.75' did not contain concentrations of BTEX, naphthalene, or total petroleum hydrocarbons (TPH) exceeding applicable COGCC Table 910-1 regulatory limits.

Soil analytical results are summarized in Table 1 and presented in Figure 2. The soil laboratory analytical reports are included in Attachment A.

4.0 CONCLUSIONS

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

- Approximately 120 bbls of slurry (~7 cubic yards of soil) were removed for disposal from the Hurley H 26-11-E surface release excavation from November 1, 2019 through November 8, 2019.
- Confirmation soil samples SS-01@0.5', SS-02@2.5', and SS-03@1.75' did not contain concentrations of BTEX, naphthalene, or TPH exceeding applicable COGCC Table 910-1 regulatory limits.

5.0 RECOMMENDATIONS

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

- No further assessment or remediation appears warranted for the Hurley H 26-11-E surface release (Spill ID 468982) at this time.

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.



Andrew Newberry
Project Geologist

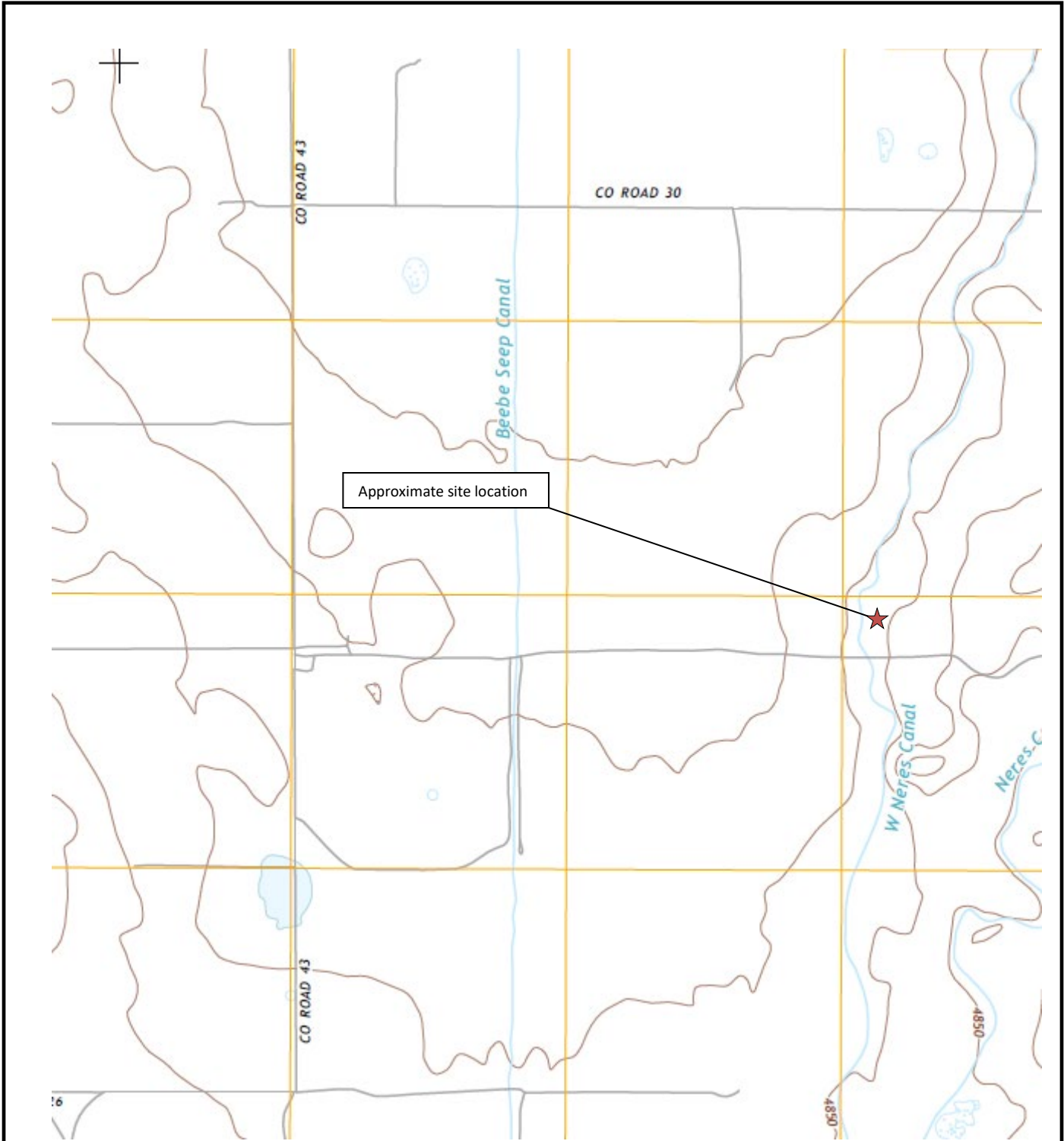



Robin Lockwood
Project Scientist

FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Soil Analytical Map





Topographic Site Location Map
 Hurley H 26-11-E
 Surface Release
 40.194901 / -104.632106
 SW¼ NW¼ SEC.26 T3N R65W 6PM
 Weld County, Colorado
 Spill ID 468982

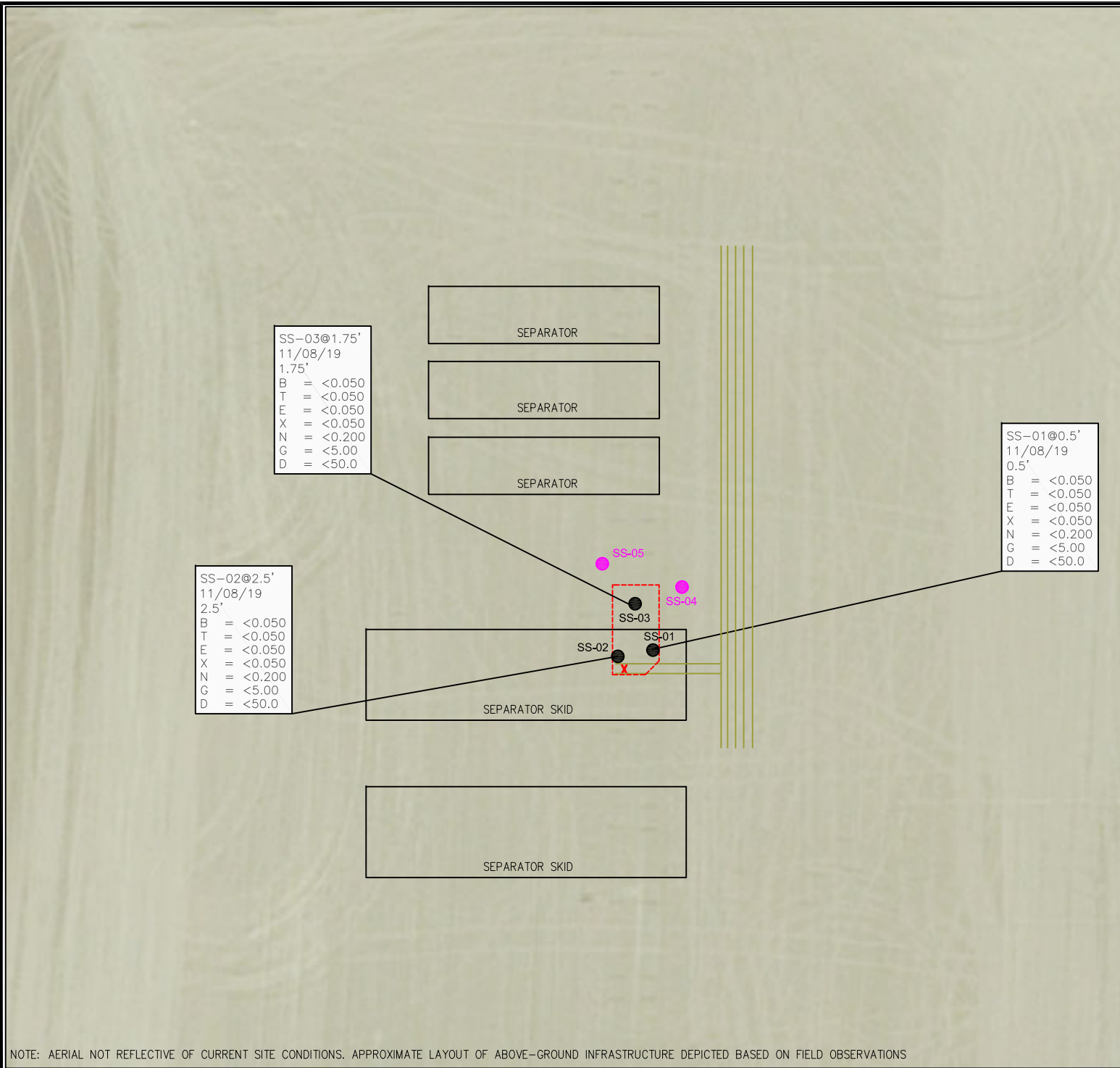


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Source: USGS 7.5 Minute Topographic Map, Milton Reservoir, CO Quadrangle 2013

Figure 1



SS-03@1.75'
11/08/19
1.75'
B = <0.050
T = <0.050
E = <0.050
X = <0.050
N = <0.200
G = <5.00
D = <50.0

SS-02@2.5'
11/08/19
2.5'
B = <0.050
T = <0.050
E = <0.050
X = <0.050
N = <0.200
G = <5.00
D = <50.0

SS-01@0.5'
11/08/19
0.5'
B = <0.050
T = <0.050
E = <0.050
X = <0.050
N = <0.200
G = <5.00
D = <50.0

LEGEND

- APPROXIMATE ABOVE-GROUND LINE LOCATIONS
- APPROXIMATE RELEASE LOCATION
- APPROXIMATE EXCAVATION BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED WITH PHOTOIONIZATION DETECTOR (PID)
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

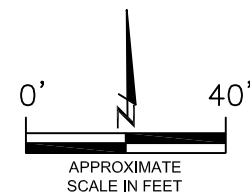
| SOIL SAMPLE LOCATION |
|---------------------------|
| DATE |
| DEPTH (FEET) |
| B = BENZENE (mg/kg) |
| T = TOLUENE (mg/kg) |
| E = ETHYLBENZENE (mg/kg) |
| X = TOTAL XYLENES (mg/kg) |
| N = NAPHTHALENE (mg/kg) |
| G = TPH-GRO (mg/kg) |
| D = TPH-DRO (mg/kg) |

mg/kg = MILLIGRAMS PER KILOGRAM

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS

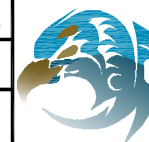
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

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



SOIL ANALYTICAL MAP
HURLEY H 26-11-E
SURFACE RELEASE
40.194901 / -104.632106
SW¼ NW¼ SEC.26 T3N R65W 6PM
WELD COUNTY, COLORADO
SPILL ID 468982

DATE:
11/11/19
DRAWN BY:
AMN
FIG.
NO. 2



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

TABLE

Table 1: Soil Analytical Results Summary

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
HURLEY H 26-11-E
SURFACE RELEASE
40.194901 / -104.632106
SW 1/4 NW 1/4 SEC. 26 T3N R65W 6PM
WELD COUNTY, COLORADO
SPILL ID 468982

| Sample Location (Latitude/Longitude) | Date | Approximate Depth (feet) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Total Xylenes (mg/kg) | Naphthalene (mg/kg) | TPH-GRO (mg/kg) | TPH-DRO (mg/kg) |
|--|----------|--------------------------------|--------------------|--------------------|-------------------------|-----------------------------|------------------------|--------------------|--------------------|
| COGCC Table 910-1 Regulatory Limits (mg/kg) | | | 0.17 | 85 | 100 | 175 | 23 | 500 | |
| SS-01 @ 0.5' (40.194903 / -104.632078) | 11/08/19 | 0.5 | <0.050 | <0.050 | <0.050 | <0.050 | <0.200 | <5.00 | <50.0 |
| SS-02 @ 2.5' (40.194901 / -104.632108) | 11/08/19 | 2.5 | <0.050 | <0.050 | <0.050 | <0.050 | <0.200 | <5.00 | <50.0 |
| SS-03 @ 1.75' (40.194931 / -104.632090) | 11/08/19 | 1.75 | <0.050 | <0.050 | <0.050 | <0.050 | <0.200 | <5.00 | <50.0 |
| COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics TPH-DRO = Total Petroleum Hydrocarbons - Diesel 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 910-1 Regulatory Limits | | | | | | | | | |

ATTACHMENT A

Laboratory Analytical Report



November 11, 2019

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Hurley H 26-11-E

Project Number - [none]

Attached are your analytical results for Noble - Hurley H 26-11-E received by Origins Laboratory, Inc. November 08, 2019. This project is associated with Origins project number Y911133-01.

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 - Hurley H 26-11-E

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-------------|---------------|--------|------------------------|------------------|
| SS-01@0.5' | Y911133-01 | Soil | November 8, 2019 13:50 | 11/08/2019 15:45 |
| SS-02@2.5' | Y911133-02 | Soil | November 8, 2019 13:52 | 11/08/2019 15:45 |
| SS-03@1.75' | Y911133-03 | Soil | November 8, 2019 15:00 | 11/08/2019 15:45 |

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 - Hurley H 26-11-E

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y911133

Client: Eagle

Client Project ID: Noble Hurley H 26-11-E

Checklist Completed by: JG

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

Date/time completed: 11/8/19

Airbill #: NTA

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

Cooler Number/Temperature: 1 133 °c 1 °c 1 °c 1 °c (Describe)

Thermometer ID: T003

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

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

Reviewed by (Project Manager)

11/8/19
 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 - Hurley H 26-11-E

SS-01@0.5'

11/8/2019 1:50:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y911133-01 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015D

| | | | | | | | | | |
|--------------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B9K0807 | KDK | 11/08/2019 | 11/08/2019 | U |
| Surrogate: <i>o</i> -Terphenyl | 81.0 % | 50-150 | | | " | " | " | " | |

GBTEX + Naphthalene by EPA 8260D

| | | | | | | | | | |
|----------------------------------|--------|--------|-------|----|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B9K0815 | KDK | 11/08/2019 | 11/08/2019 | U |
| Benzene | ND | 0.050 | " | " | " | KDK | " | " | U |
| Toluene | ND | 0.050 | " | " | " | KDK | " | " | U |
| Ethylbenzene | ND | 0.050 | " | " | " | KDK | " | " | U |
| Xylenes, total | ND | 0.050 | " | " | " | KDK | " | " | U |
| Naphthalene | ND | 0.200 | " | " | " | KDK | " | " | U |
| Surrogate: 1,2-Dichloroethane-d4 | 91.8 % | 70-130 | | | " | " | " | " | |
| Surrogate: Toluene-d8 | 98.3 % | 70-130 | | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 96.4 % | 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 - Hurley H 26-11-E

SS-02@2.5'

11/8/2019 1:52:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y911133-02 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015D

| | | | | | | | | | |
|-------------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B9K0807 | KDK | 11/08/2019 | 11/08/2019 | U |
| <i>Surrogate: o-Terphenyl</i> | 83.0 % | 50-150 | | | " | " | " | " | |

GBTEX + Naphthalene by EPA 8260D

| | | | | | | | | | |
|---|--------|--------|-------|----|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B9K0815 | KDK | 11/08/2019 | 11/08/2019 | U |
| Benzene | ND | 0.050 | " | " | " | KDK | " | " | U |
| Toluene | ND | 0.050 | " | " | " | KDK | " | " | U |
| Ethylbenzene | ND | 0.050 | " | " | " | KDK | " | " | U |
| Xylenes, total | ND | 0.050 | " | " | " | KDK | " | " | U |
| Naphthalene | ND | 0.200 | " | " | " | KDK | " | " | U |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 91.8 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: Toluene-d8</i> | 98.4 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 96.6 % | 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 - Hurley H 26-11-E

SS-03@1.75'

11/8/2019 3:00:00PM

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Analyst | Prepared | Analyzed | Notes |
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|
|---------|--------|-----------------|-------|----------|-------|---------|----------|----------|-------|

Origins Laboratory, Inc.
Y911133-03 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015D

| | | | | | | | | | |
|-------------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B9K0807 | KDK | 11/08/2019 | 11/08/2019 | U |
| <i>Surrogate: o-Terphenyl</i> | 87.6 % | 50-150 | | | " | " | " | " | |

GBTEX + Naphthalene by EPA 8260D

| | | | | | | | | | |
|---|--------|--------|-------|----|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B9K0815 | KDK | 11/08/2019 | 11/08/2019 | U |
| Benzene | ND | 0.050 | " | " | " | KDK | " | " | U |
| Toluene | ND | 0.050 | " | " | " | KDK | " | " | U |
| Ethylbenzene | ND | 0.050 | " | " | " | KDK | " | " | U |
| Xylenes, total | ND | 0.050 | " | " | " | KDK | " | " | U |
| Naphthalene | ND | 0.200 | " | " | " | KDK | " | " | U |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 91.3 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: Toluene-d8</i> | 97.7 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 94.1 % | 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 - Hurley H 26-11-E

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 B9K0807 - EPA 3580 | | | | | | | | | | |
| Blank (B9K0807-BLK1) | | | | | Prepared: 11/08/2019 Analyzed: 11/08/2019 | | | | | |
| Diesel (C10-C28) | ND | 25.0 | mg/kg | | | | | | | U |
| Surrogate: o-Terphenyl | 23 | | " | 25.0 | | 90.1 | 50-150 | | | |

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 - Hurley H 26-11-E

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 B9K0807 - EPA 3580

LCS (B9K0807-BS1)

Prepared: 11/08/2019 Analyzed: 11/08/2019

| | | | | | | | | | | |
|------------------------|------|------|-------|------|--|-----|--------|--|--|--|
| Diesel (C10-C28) | 1050 | 50.0 | mg/kg | 1000 | | 105 | 70-130 | | | |
| Surrogate: o-Terphenyl | 58 | | " | 50.0 | | 116 | 50-150 | | | |

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 - Hurley H 26-11-E

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 B9K0807 - EPA 3580

| Matrix Spike (B9K0807-MS1) | Source: Y911115-01 | | | Prepared: 11/08/2019 Analyzed: 11/08/2019 | | | | | | |
|-----------------------------------|---------------------------|------|-------|---|------|-----|--------|--|--|--|
| Diesel (C10-C28) | 1040 | 50.0 | mg/kg | 1000 | 35.3 | 100 | 70-130 | | | |
| Surrogate: o-Terphenyl | 53 | | " | 50.0 | | 105 | 50-150 | | | |

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 - Hurley H 26-11-E

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 B9K0807 - EPA 3580

| Matrix Spike Dup (B9K0807-MSD1) | Source: Y911115-01 | | | Prepared: 11/08/2019 Analyzed: 11/08/2019 | | | | | | |
|---------------------------------|--------------------|------|-------|---|------|------|--------|------|----|--|
| Diesel (C10-C28) | 898 | 50.0 | mg/kg | 1000 | 35.3 | 86.3 | 70-130 | 14.2 | 35 | |
| Surrogate: o-Terphenyl | 47 | | " | 50.0 | | 93.0 | 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 - Hurley H 26-11-E

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 B9K0815 - EPA 5030 (soil)

Blank (B9K0815-BLK1)

Prepared: 11/08/2019 Analyzed: 11/08/2019

| | | | | | | | | | | |
|----------------------------------|------|-------|-------|-------|--|------|--------|--|--|---|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | | | | | | | U |
| Benzene | ND | 0.002 | " | | | | | | | U |
| Toluene | ND | 0.002 | " | | | | | | | U |
| Ethylbenzene | ND | 0.002 | " | | | | | | | U |
| Xylenes, total | ND | 0.002 | " | | | | | | | U |
| Naphthalene | ND | 0.008 | " | | | | | | | U |
| Surrogate: 1,2-Dichloroethane-d4 | 0.12 | | " | 0.125 | | 92.1 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 97.5 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 97.2 | 70-130 | | | |

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Eagle Environmental Consulting, Inc.
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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Hurley H 26-11-E

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 B9K0815 - EPA 5030 (soil)

LCS (B9K0815-BS1)

Prepared: 11/08/2019 Analyzed: 11/08/2019

| | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|--|------|--------|--|--|--|
| Benzene | 0.103 | 0.002 | mg/kg | 0.100 | | 103 | 70-130 | | | |
| Toluene | 0.103 | 0.002 | " | 0.100 | | 103 | 70-130 | | | |
| Ethylbenzene | 0.104 | 0.002 | " | 0.100 | | 104 | 70-130 | | | |
| m,p-Xylene | 0.201 | 0.004 | " | 0.200 | | 101 | 70-130 | | | |
| o-Xylene | 0.097 | 0.002 | " | 0.100 | | 96.6 | 70-130 | | | |
| Naphthalene | 0.110 | 0.008 | " | 0.100 | | 110 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.11 | | " | 0.125 | | 88.3 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 99.1 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 97.1 | 70-130 | | | |

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Hurley H 26-11-E

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 B9K0815 - EPA 5030 (soil)

| Matrix Spike (B9K0815-MS1) | Source: Y911133-01 | | | Prepared: 11/08/2019 Analyzed: 11/08/2019 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|-------|------|--------|--|--|--|
| Benzene | 0.102 | 0.002 | mg/kg | 0.100 | ND | 102 | 70-130 | | | |
| Toluene | 0.098 | 0.002 | " | 0.100 | 0.004 | 94.8 | 70-130 | | | |
| Ethylbenzene | 0.099 | 0.002 | " | 0.100 | ND | 98.9 | 70-130 | | | |
| m,p-Xylene | 0.193 | 0.004 | " | 0.200 | 0.012 | 91.0 | 70-130 | | | |
| o-Xylene | 0.092 | 0.002 | " | 0.100 | 0.003 | 89.4 | 70-130 | | | |
| Naphthalene | 0.104 | 0.008 | " | 0.100 | 0.003 | 101 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.11 | | " | 0.125 | | 88.4 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 98.1 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 95.8 | 70-130 | | | |

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Hurley H 26-11-E

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 B9K0815 - EPA 5030 (soil)

| Matrix Spike Dup (B9K0815-MSD1) | Source: Y911133-01 | | | Prepared: 11/08/2019 Analyzed: 11/08/2019 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|-------|------|--------|------|----|--|
| Benzene | 0.112 | 0.002 | mg/kg | 0.100 | ND | 112 | 70-130 | 9.88 | 20 | |
| Toluene | 0.111 | 0.002 | " | 0.100 | 0.004 | 108 | 70-130 | 12.4 | 20 | |
| Ethylbenzene | 0.114 | 0.002 | " | 0.100 | ND | 114 | 70-130 | 14.1 | 20 | |
| m,p-Xylene | 0.223 | 0.004 | " | 0.200 | 0.012 | 106 | 70-130 | 14.0 | 20 | |
| o-Xylene | 0.106 | 0.002 | " | 0.100 | 0.003 | 103 | 70-130 | 13.7 | 20 | |
| Naphthalene | 0.112 | 0.008 | " | 0.100 | 0.003 | 109 | 70-130 | 7.67 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.11 | | " | 0.125 | | 85.8 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 97.3 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 97.1 | 70-130 | | | |

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Eagle Environmental Consulting, Inc.
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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Hurley H 26-11-E

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Jen Pellegrini For Noelle Doyle Mathis, President