



August 30, 2019

Mr. Jacob Evans
Noble Energy, Inc.
2115 117th Avenue
Greeley, Colorado 80621

**Source Excavation Report
Agricultural Products Federal #32-17
Historical Release
40.269576 / -104.797120
SW 1/4 NE 1/4 SEC.32 T4N R66W 6PM
Weld County, Colorado
Remediation # 12471**

Dear Mr. Evans,

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

1.0 SITE BACKGROUND

EAGLE was requested by Noble Energy, Inc. (Noble) to perform subsurface assessment activities at the site in response to potential petroleum hydrocarbon impacts associated with the removal of the produced water vault at the Agricultural Products Federal #32-17 tank battery (site). Following removal of the water vault, EAGLE collected soil samples SS-01 through SS-05 from the excavation. Based on soil laboratory analytical results, soil samples SS-01@3', SS-02@3', SS-03@3', SS-04@3', and SS-05@6' did not contain concentrations of BTEX, naphthalene, or total petroleum hydrocarbons (TPH) exceeding applicable COGCC Table 910-1 regulatory limits.

However, following initial assessment activities, EAGLE and Noble completed additional soil assessment activities to attempt preliminary delineation of petroleum hydrocarbon staining and odor observed at the site during water vault removal activities. On February 21, 2019, potholing was completed, utilizing a backhoe, within the initial limits of the water vault excavation. One (1) pothole soil samples (PH-02@12') was submitted for laboratory analysis.

On February 21, 2019, groundwater was observed within pothole location PH-02 at approximately 12-12.5 feet bgs. EAGLE collected a grab groundwater sample (GW-01), placed the sample in an iced cooler. Based on laboratory analytical results, soil sample PH-02@12' contained concentrations of benzene (1.30 milligrams per kilogram (mg/kg)) and TPH (584 mg/kg) exceeding applicable COGCC Table 910-1 regulatory limits of 0.17 mg/kg and 500 mg/kg, respectively. Additionally, grab groundwater sample GW-01 contained concentrations of benzene (8,250 micrograms per liter (µg/L)), ethylbenzene (898 µg/L), and total xylenes (8,890 µg/L) exceeding applicable COGCC Table 910-1 regulatory limits of 5 µg/L, 700 µg/L, and 1,400 µg/L, respectively.

On April 5, 2019, six (6) soil borings (MW-01 through MW-06) were advanced around the historical produced water release area to assess dissolved benzene, toluene, ethylbenzene, and total xylenes (BTEX) impacts associated with the historical release. Following advancement activities, each soil boring was

completed as a 1-inch, groundwater monitoring well to define the extents of dissolved petroleum hydrocarbon impacts beneath the site. Soil and groundwater samples were collected from each soil boring/monitoring well. Based on laboratory analytical results, soil and groundwater remediation would be required at the site.

Following assessment activities, a source excavation was scheduled. The following narrative details source excavation activities completed at the site.

2.0 SITE DESCRIPTION

The Agricultural Products Federal #32-17 site is located within the southwest quarter of the northeast quarter of Section 32, Township 4 north, Range 66 west of the 6th Prime Meridian. The historical release was located at latitude: 40.269576 and longitude: -104.797120. A topographic site location map is presented as Figure 1. An aerial site location map is presented as Figure 2.

2.1 Site Hydrogeology

The soil lithology observed beneath the release location consists of medium-dense, clayey sand from the ground surface to approximately 8 feet below ground surface (bgs), underlain by sandy clay from approximately 8 feet bgs to 12 feet bgs, underlain by clayey sand from approximately 12 to 15 feet bgs. Groundwater during initial assessment activities was approximately 12 to 12.5 feet bgs. Groundwater was observed at approximately 8 feet bgs during well installation activities and 7.5 feet during pre-excavation potholing and source excavation activities.

3.0 SOURCE EXCAVATION

3.1 Pre-Excavation Pothole Assessment Activities

On June 20, 2019, additional potholing was completed, utilizing a backhoe, outside the limits of the initial water vault excavation and adjacent to the previously installed monitoring wells. Soil samples from potholes EXC-PH-01, EXC-PH-02, EXC-PH-03, EXC-PH-04, and EXC-PH-05 were collected at various depths at the site to aid in characterizing extents of adsorbed petroleum hydrocarbon impacts. 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 a 2-ounce glass jar and packed in an iced cooler. During potholing activities, groundwater was observed at approximately 7.5 feet bgs.

Nine (9) pothole soil samples (EXC-PH-01@5', EXC-PH-01@7', EXC-PH-02@5', EXC-PH-02@7', EXC-PH-03@5', EXC-PH-03@7', EXC-PH-04@5', EXC-PH-04@7', and EXC-PH-05@7') were submitted to Origins for laboratory analysis of BTEX, naphthalene, TPH-GRO, and TPH-DRO following modified EPA Methods 8260D and 8015D. The laboratory received the soil samples within the required holding time for each laboratory analysis.

Based on laboratory analytical results:

- Soil samples EXC-PH-01@5', EXC-PH-01@7', EXC-PH-02@5', EXC-PH-02@7', EXC-PH-03@5', EXC-PH-03@7', EXC-PH-04@5', EXC-PH-04@7', and EXC-PH-05@7' did not contain concentrations of BTEX, naphthalene, or TPH exceeding applicable COGCC Table 910-1 regulatory limits.

Pothole assessment soil analytical results are presented in Figure 3 and summarized in Table 1. The laboratory analytical report for the pre-excavation pothole soil samples is included in Attachment A.

3.2 Source Excavation Activities

On June 24, 2019, EAGLE and Noble supervised excavation activities to remove adsorbed petroleum hydrocarbon impacts beneath, and adjacent to, the removed water vault associated with the Agricultural Products Federal #32017 site. 4X Industrial (4X) provided the necessary equipment and personnel to remove and transport petroleum hydrocarbon impacted soil from the site.

The soil lithology observed during source excavation activities consists of medium-dense, clayey sand from the ground surface to approximately 8 feet bgs. Groundwater was observed at approximately 7.5 feet bgs during excavation activities.

Waste characterization/confirmation soil samples (EXC-SS-01, EXC-SS-02, EXC-SS-03, EXC-SS-04, EXC-SS-05, EXC-SS-06, EXC-SS-07, and EXC-SS-08) were collected at various locations to determine the lateral extent of petroleum hydrocarbon impacts in the soil beneath and adjacent to the historical release. 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 a 2-ounce glass jar and packed in an iced cooler.

Based on location and PID analysis, selected jarred soil samples were submitted to Origins, under standard chain of custody procedures, for analysis of BTEX, naphthalene, TPH-GRO, and TPH-DRO following modified EPA Methods 8260D and 8015D. The laboratory received the soil samples within the required holding time for each laboratory analysis.

A total of eight (8) confirmation soil samples (EXC-SS-01@7', EXC-SS-02@7', EXC-SS-03@7', EXC-SS-04@7', EXC-SS-05@7', EXC-SS-06@7', EXC-SS-07@7', and EXC-SS-08@7') were submitted for laboratory analysis. Spatial location of each soil sample was recorded using a Trimble GeoXT 6000 series instrument. A site map presenting the limits of the excavation, as well as soil sample locations, is included as Figure 4.

The final limits of the Agricultural Products Federal #32-17 excavation extended approximately 50 feet north to south and 35 feet east to west. Based on groundwater infiltration and sidewall integrity at the time, the excavation was limited to a depth of approximately 7.5 to 8 feet bgs. Prior to backfill, approximately 300 pounds of granular activated carbon (GAC) and 300 pounds of gypsum were applied to the base of the excavation to aid in the remediation of dissolved petroleum hydrocarbon impacts at the site. Safety data sheets for the GAC and gypsum are included in Attachment B.

Approximately 330 cubic yards of soil were removed during excavation activities, and transported offsite for disposal at Buffalo Ridge Landfill located in Keenesburg, Colorado. During pre-excavation pothole assessment and source excavation activities, monitoring wells MW-01 through MW-06 were destroyed.

3.3 Excavation Laboratory Analytical Results

Based on soil laboratory analytical results:

- Confirmation soil samples (EXC-SS-01@7', EXC-SS-02@7', EXC-SS-03@7', EXC-SS-04@7', EXC-SS-05@7', EXC-SS-06@7', EXC-SS-07@7', and EXC-SS-08@7') collected from the Agricultural Product Federal #32-17 excavation did not contain concentrations of BTEX, naphthalene, or TPH exceeding applicable COGCC Table 910-1 regulatory limits.

Excavation soil analytical results are presented in Figure 4 and summarized in Table 1. The laboratory analytical report for the soil samples collected during source removal activities is included in Attachment A.

4.0 CONCLUSIONS

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

- On February 21, 2019, EAGLE assessed potential petroleum hydrocarbon impacts associated with the produced water vault at the Agricultural Products Federal #32-17 tank battery. On April 5, 2019 EAGLE installed monitoring wells MW-01 through MW-06. Based on soil and groundwater analytical results, additional soil and groundwater assessment and remediation was required.
- On June 20, 2019, pothole locations EXC-PH-01, EXC-PH-02, EXC-PH-03, EXC-PH-04, and EXC-PH-05, were advanced to aid in determining extents of petroleum hydrocarbon impacts at the site.
- Soil samples EXC-PH-01@5', EXC-PH-01@7', EXC-PH-02@5', EXC-PH-02@7', EXC-PH-03@5', EXC-PH-03@7', EXC-PH-04@5', EXC-PH-04@7', and EXC-PH-05@7' did not contain concentrations of BTEX, naphthalene, or TPH exceeding applicable COGCC Table 910-1 regulatory limits.
- On June 24, 2019, EAGLE and Noble supervised excavation activities to removed petroleum hydrocarbon impacts associated with the historical release at Agriculture Products Federal #32-17 site. Approximately 330 cubic yards of soil were removed and transported to Buffalo Ridge for disposal.
- Confirmation soil samples (EXC-SS-01@7', EXC-SS-02@7', EXC-SS-03@7', EXC-SS-04@7', EXC-SS-05@7', EXC-SS-06@7', EXC-SS-07@7', and EXC-SS-08@7') collected from the Agriculture Products Federal #32-17 excavation did not contain concentrations of BTEX, naphthalene, or TPH exceeding applicable COGCC Table 910-1 regulatory limits.
- Prior to backfill, approximately 300 pounds of GAC and 300 pounds of gypsum were applied to the base of the excavation to aid in remediation of residual petroleum hydrocarbon impacts at the site.
- Monitoring wells MW-01 through MW-06 were destroyed during pre-excavation pothole assessment and excavation activities.

5.0 RECOMMENDATIONS

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

- Install replacement and point of compliance monitoring wells at the site to assess and delineate dissolved petroleum hydrocarbon impacts;
- Investigate remedial options based on groundwater delineation results at the site.

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

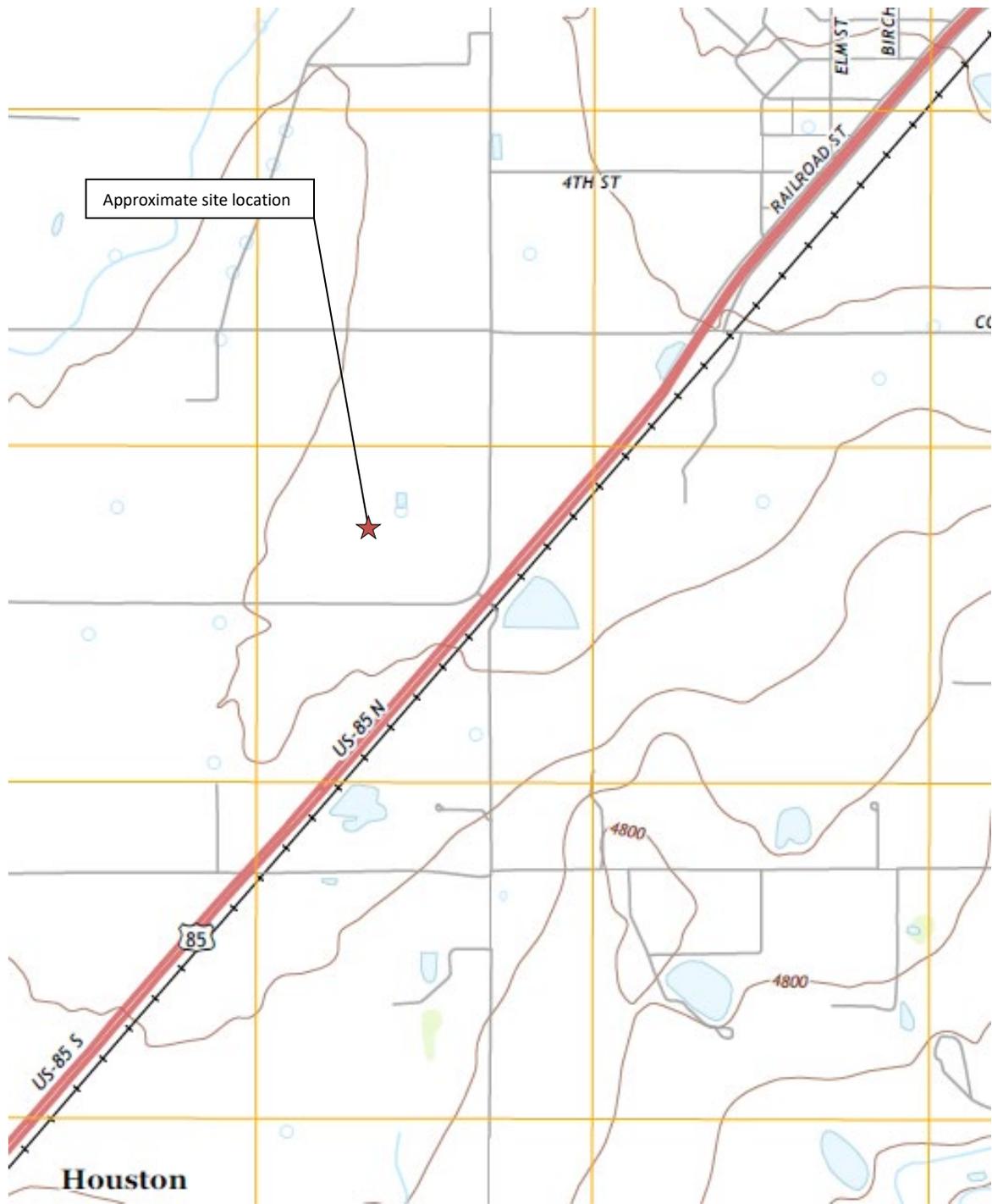
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Pothole Assessment Map

Figure 4: Excavation Soil Analytical Map



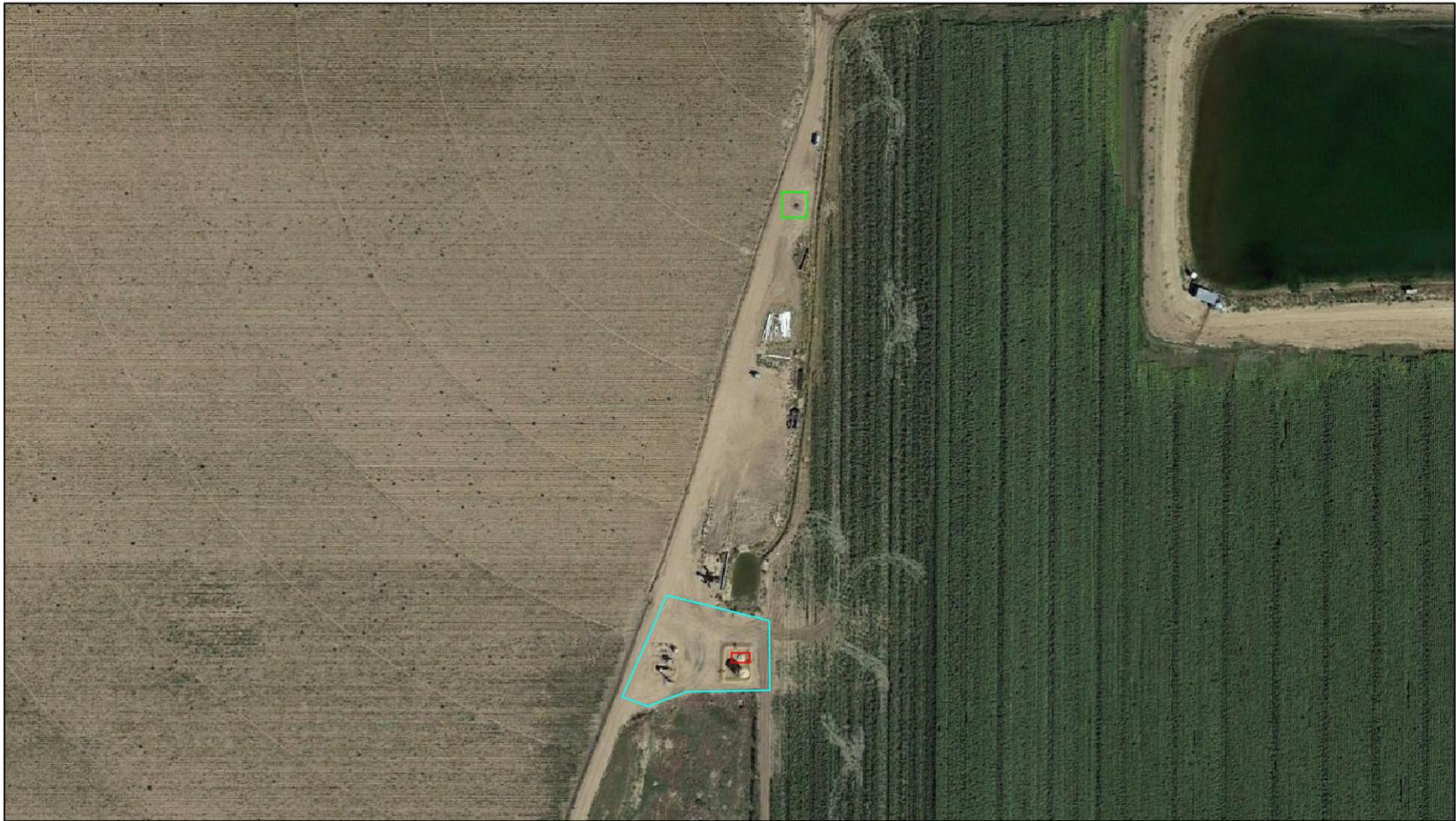
Topographic Site Location Map
 Agricultural Products Federal #32-17
 Historical Release
 40.269576 / -104.797120
 SW¼ NE¼ SEC.32 T4N R66W 6PM
 Weld County, Colorado
 Remediation # 12471



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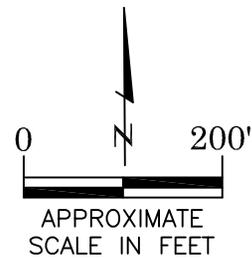
Source: USGS 7.5 Minute Topographic Map, Milliken, CO Quadrangle 2013

Figure 1



LEGEND

- AGRICULTURAL PRODUCTS FEDERAL #32-17 TANK BATTERY
- AGRICULTURAL PRODUCTS FEDERAL #32-17 WELL HEAD
- APPROXIMATE LOCATION OF WATER VAULT EXCAVATION/RELEASE



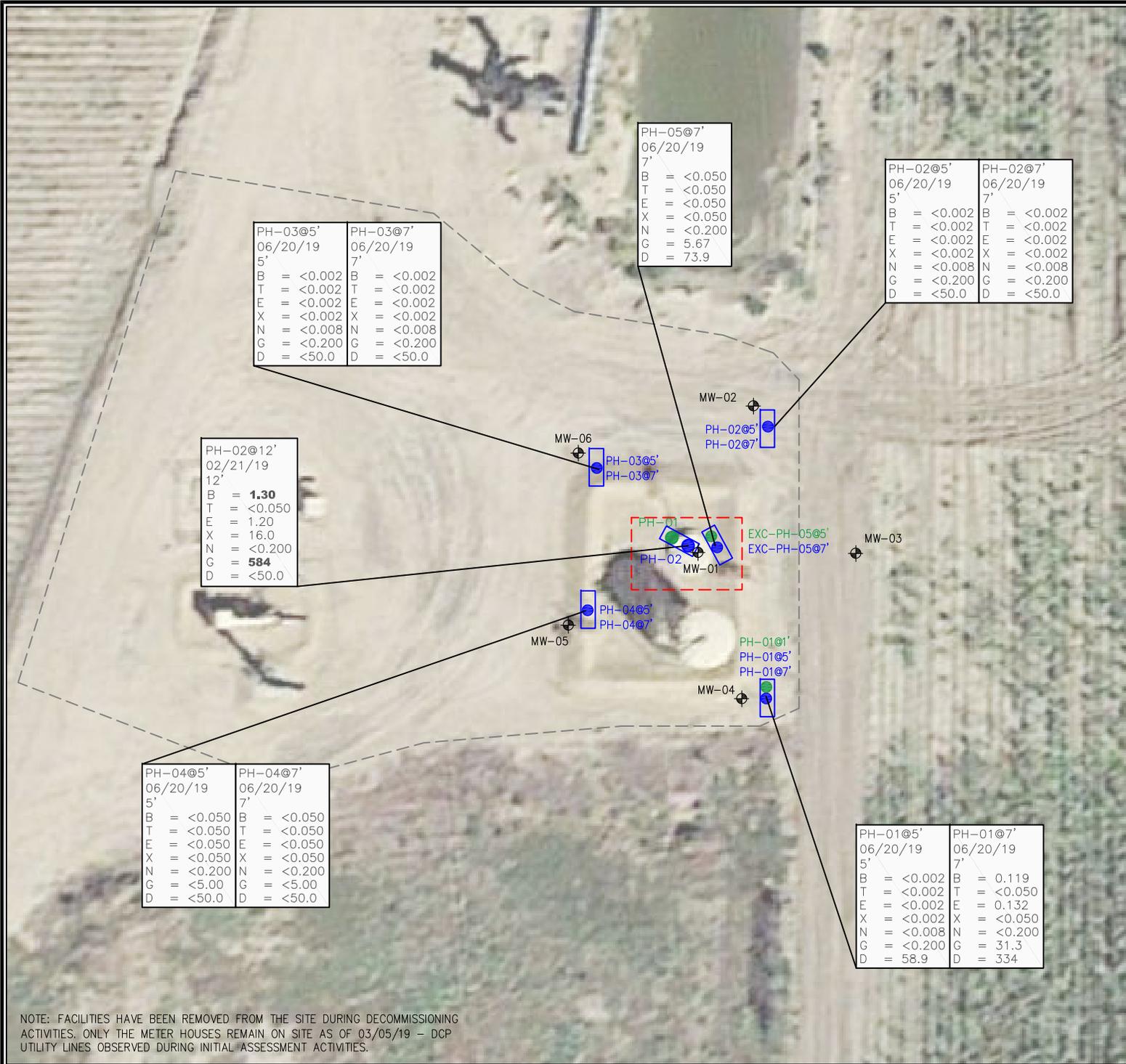
AERIAL SITE LOCATION MAP
 AGRICULTURAL PRODUCTS FEDERAL #32-17
 HISTORICAL RELEASE
 40.269576 / -104.797120
 SW1/4 NE1/4 SEC.32 T4N R66W 6PM
 WELD COUNTY, COLORADO
 REMEDIATION # 12471

DATE: 03/14/19

FIG. NO. 2 DRAWN BY: ar



EAGLE
 ENVIRONMENTAL
 CONSULTING, INC.
 4101 INCA STREET, DENVER, CO 80211
 Ph: 303-433-0479 • F: 303-325-5449



NOTE: FACILITIES HAVE BEEN REMOVED FROM THE SITE DURING DECOMMISSIONING ACTIVITIES. ONLY THE METER HOUSES REMAIN ON SITE AS OF 03/05/19 – DCP UTILITY LINES OBSERVED DURING INITIAL ASSESSMENT ACTIVITIES.

LEGEND

- APPROXIMATE TANK BATTERY BOUNDARY
- - - INITIAL EXCAVATION BOUNDARIES
- ⊕ APPROXIMATE MONITORING WELL LOCATIONS
- APPROXIMATE POTHOLE TEST PIT LOCATIONS
- APPROXIMATE POTHOLE SOIL SAMPLES COLLECTED FOR FIELD SCREENING WITH PHOTOIONIZATION DETECTOR (PID)
- POTHOLE 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) |

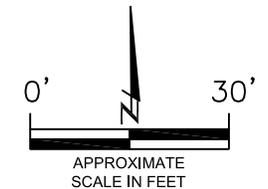
mg/kg = MILLIGRAMS PER KILOGRAM

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

VALUES PRESENTED IN **BOLD** TYPEFACE CONTAIN CONCENTRATIONS EXCEEDING COGCC REGULATORY LIMITS FOR THAT COMPOUND

COGCC – COLORADO OIL AND GAS CONSERVATION COMMISSION

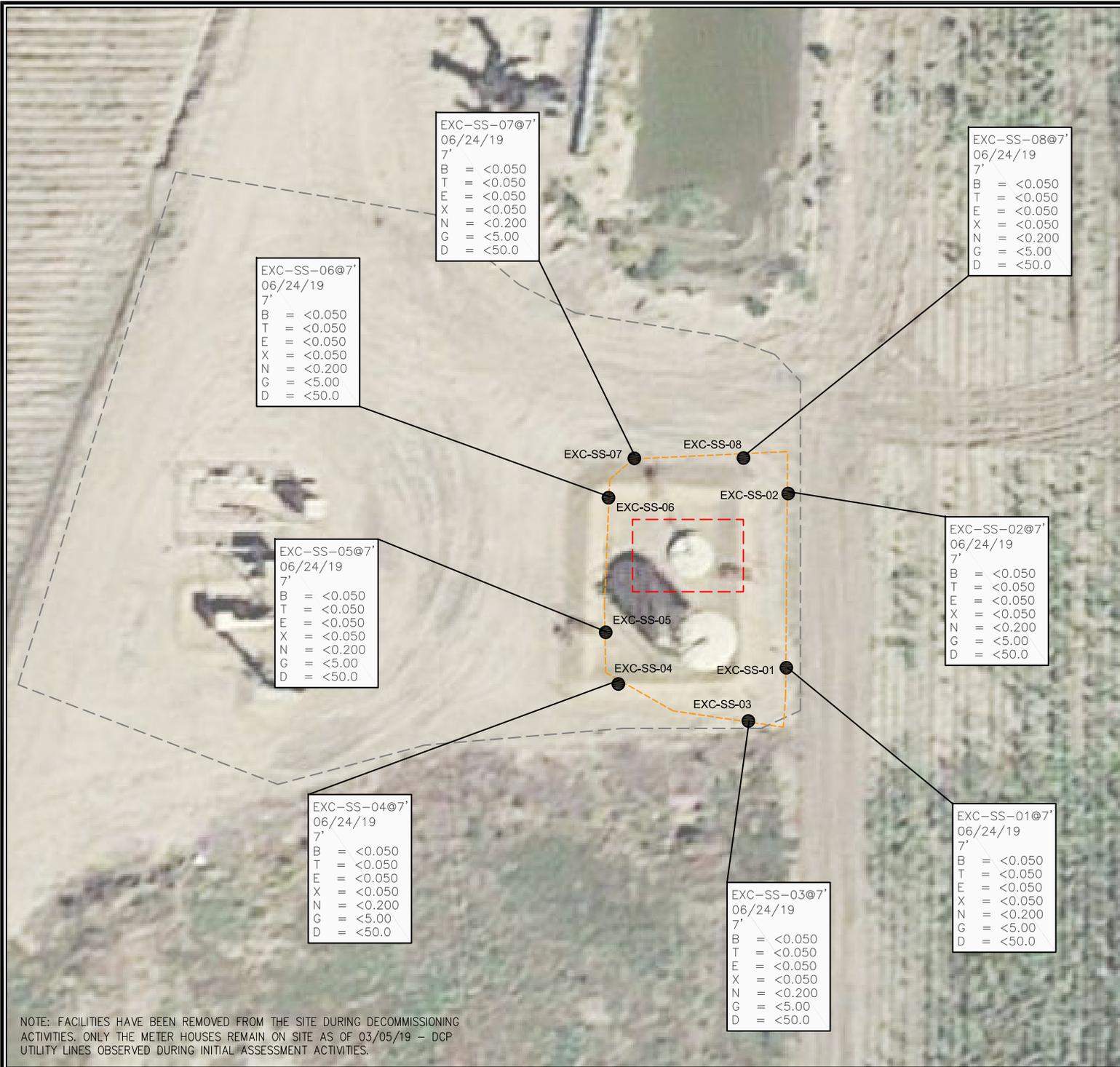


POTHOLE ASSESSMENT MAP
 AGRICULTURAL PRODUCTS FEDERAL #32-17
 HISTORICAL RELEASE
 40.269576 / -104.797120
 SW1/4 NE1/4 SEC.32 T4N R66W 6PM
 WELD COUNTY, COLORADO
 REMEDIATION # 12471

DATE:
08/30/19
DRAWN BY:
or
FIG.
NO. 3



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



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LEGEND

- APPROXIMATE TANK BATTERY BOUNDARY
- - - INITIAL EXCAVATION BOUNDARIES
- - - APPROXIMATE EXCAVATION BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

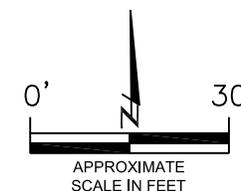
SOIL SAMPLE LOCATION
 DATE
 DEPTH (FEET)
 B = BENZENE (mg/kg)
 T = TOLUENE (mg/kg)
 E = ETHYLBENZENE (mg/kg)
 X = TOTAL XYLENES (mg/kg)
 N = NAPHTHALENE (mg/kg)
 G = TPH-GRO (mg/kg)
 D = TPH-DRO (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS – GASOLINE RANGE ORGANICS

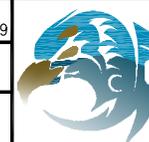
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS – DIESEL RANGE ORGANICS

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



EXCAVATION SOIL ANALYTICAL MAP
 AGRICULTURAL PRODUCTS FEDERAL #32-17
 HISTORICAL RELEASE
 40.269576 / -104.797120
 SW1/4 NE1/4 SEC.32 T4N R66W 6PM
 WELD COUNTY, COLORADO
 REMEDIATION # 12471

DATE:
08/30/19
 DRAWN BY:
or
 FIG.
NO. 4



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

TABLES

Table 1: Soil Analytical Results Summary

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
AGRICULTURAL PRODUCTS FEDERAL #32-17
HISTORICAL RELEASE
40.269576 / -104.797120
SW¼ NE¼ SEC.32 T4N R66W 6PM
WELD COUNTY, COLORADO
REMEDATION # 12471

| 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) | Specific Conductance (mmhos/cm) | pH (pH units) | SAR |
|--|----------|--------------------------------|--------------------|--------------------|-------------------------|-----------------------------|------------------------|--------------------|--------------------|---------------------------------------|------------------|---------------|
| COGCC Table 910-1 Regulatory Limits (mg/kg) | | | 0.17 | 85 | 100 | 175 | 23 | 500 | | <4 | 6 to 9 | <12 |
| SS-01 @ 3' (40.269606 / -104.797120) | 02/21/19 | 3 | <0.002 | <0.002 | <0.002 | <0.002 | <0.008 | 0.310 | <50.0 | NA | NA | NA |
| SS-02 @ 3' (40.269562 / -104.797120) | 02/21/19 | 3 | <0.002 | <0.002 | <0.002 | <0.002 | <0.008 | 1.59 | 263 | 0.183 | 8.94 | 9.55 |
| SS-03 @ 3' (40.269583 / -104.797091) | 02/21/19 | 3 | <0.002 | <0.002 | <0.002 | <0.002 | <0.008 | 0.276 | 56.0 | NA | NA | NA |
| SS-04 @ 3' (40.269583 / -104.797147) | 02/21/19 | 3 | <0.002 | <0.002 | <0.002 | <0.002 | <0.008 | <0.200 | <50.0 | NA | NA | NA |
| SS-05 @ 6' (40.269576 / -104.797125) | 02/21/19 | 6 | <0.050 | <0.050 | 0.098 | <0.050 | <0.200 | 133 | 270 | NA | NA | NA |
| PH-02 @ 12' (40.269576 / -104.797125) | 02/21/19 | 12 | 1.30 | <0.050 | 1.20 | 16.0 | <0.200 | 584 | <50.0 | NA | NA | NA |
| MW-01 @ 2.5-5' (40.269582 / -104.797111) | 04/05/19 | 2.5-5 | <0.050 | <0.050 | 0.210 | 3.80 | <0.200 | 15.0 | 57.6 | NA | NA | NA |
| MW-02 @ 2.5-5' (40.269667 / -104.797065) | 04/05/19 | 2.5-5 | <0.050 | <0.050 | <0.050 | <0.050 | <0.200 | <5.00 | <50.0 | NA | NA | NA |
| MW-03 @ 5-7.5' (40.269580 / -104.796995) | 04/05/19 | 5-7.5 | <0.050 | <0.050 | <0.050 | 0.643 | <0.200 | 74.6 | 114 | NA | NA | NA |
| MW-04 @ 5-7.5' (40.269496 / -104.797073) | 04/05/19 | 5-7.5 | 0.612 | <0.050 | 0.466 | <0.050 | <0.200 | 131 | 497 | NA | NA | NA |
| MW-05 @ 0-2.5' (40.269534 / -104.797222) | 04/05/19 | 0-2.5 | <0.050 | <0.050 | <0.050 | <0.050 | <0.200 | 25.0 | <50.0 | NA | NA | NA |
| MW-06 @ 2.5-5' (40.269640 / -104.797210) | 04/05/19 | 2.5-5 | <0.050 | <0.050 | <0.050 | <0.050 | <0.200 | <5.00 | <50.0 | NA | NA | NA |

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
AGRICULTURAL PRODUCTS FEDERAL #32-17
HISTORICAL RELEASE
40.269576 / -104.797120
SW¼ NE¼ SEC.32 T4N R66W 6PM
WELD COUNTY, COLORADO
REMEDIATION # 12471

| 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) | Specific Conductance (mmhos/cm) | pH (pH units) | SAR |
|--|----------|--------------------------------|--------------------|--------------------|-------------------------|-----------------------------|------------------------|--------------------|--------------------|---------------------------------------|------------------|---------------|
| COGCC Table 910-1 Regulatory Limits (mg/kg) | | | 0.17 | 85 | 100 | 175 | 23 | 500 | | <4 | 6 to 9 | <12 |
| EXC-PH-01 @ 5' (40.269494 / -104.797068) | 06/20/19 | 5 | <0.002 | <0.002 | <0.002 | <0.002 | <0.008 | <0.200 | 58.9 | NA | NA | NA |
| EXC-PH-01 @ 7' (40.269494 / -104.797068) | 06/20/19 | 7 | 0.119 | <0.050 | 0.132 | <0.050 | <0.200 | 31.3 | 334 | NA | NA | NA |
| EXC-PH-02 @ 5' (40.269647 / -104.797066) | 06/20/19 | 5 | <0.002 | <0.002 | <0.002 | <0.002 | <0.008 | <0.200 | <50.0 | NA | NA | NA |
| EXC-PH-02 @ 7' (40.269647 / -104.797066) | 06/20/19 | 7 | <0.002 | <0.002 | <0.002 | <0.002 | <0.008 | <0.200 | <50.0 | NA | NA | NA |
| EXC-PH-03 @ 5' (40.269625 / -104.797188) | 06/20/19 | 5 | <0.002 | <0.002 | <0.002 | <0.002 | <0.008 | <0.200 | <50.0 | NA | NA | NA |
| EXC-PH-03 @ 7' (40.269625 / -104.797188) | 06/20/19 | 7 | <0.002 | <0.002 | <0.002 | <0.002 | <0.008 | <0.200 | <50.0 | NA | NA | NA |
| EXC-PH-04 @ 5' (40.269540 / -104.797201) | 06/20/19 | 5 | <0.050 | <0.050 | <0.050 | <0.050 | <0.200 | <5.00 | <50.0 | NA | NA | NA |
| EXC-PH-04 @ 7' (40.269540 / -104.797201) | 06/20/19 | 7 | <0.050 | <0.050 | <0.050 | <0.050 | <0.200 | <5.00 | <50.0 | NA | NA | NA |
| EXC-PH-05 @ 7' (40.269581 / -104.797105) | 06/20/19 | 7 | <0.050 | <0.050 | <0.050 | <0.050 | <0.200 | 5.67 | 73.9 | NA | NA | NA |
| EXC-SS-01 @ 7' (40.269512 / -104.797056) | 06/24/19 | 7 | <0.050 | <0.050 | <0.050 | <0.050 | <0.200 | <5.00 | <50.0 | NA | NA | NA |
| EXC-SS-02 @ 7' (40.269613 / -104.797060) | 06/24/19 | 7 | <0.050 | <0.050 | <0.050 | <0.050 | <0.200 | <5.00 | <50.0 | NA | NA | NA |
| EXC-SS-03 @ 7' (40.269482 / -104.797085) | 06/24/19 | 7 | <0.050 | <0.050 | <0.050 | <0.050 | <0.200 | <5.00 | <50.0 | NA | NA | NA |
| EXC-SS-04 @ 7' (40.269502 / -104.797181) | 06/24/19 | 7 | <0.050 | <0.050 | <0.050 | <0.050 | <0.200 | <5.00 | <50.0 | NA | NA | NA |

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
AGRICULTURAL PRODUCTS FEDERAL #32-17
HISTORICAL RELEASE
40.269576 / -104.797120
SW¼ NE¼ SEC.32 T4N R66W 6PM
WELD COUNTY, COLORADO
REMEDATION # 12471

| 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) | Specific Conductance (mmhos/cm) | pH (pH units) | SAR |
|--|----------|--------------------------------|--------------------|--------------------|-------------------------|-----------------------------|------------------------|--------------------|--------------------|---------------------------------------|------------------|---------------|
| COGCC Table 910-1 Regulatory Limits (mg/kg) | | | 0.17 | 85 | 100 | 175 | 23 | 500 | | <4 | 6 to 9 | <12 |
| EXC-SS-05 @ 7' (40.269545 / -104.797205) | 06/24/19 | 7 | <0.050 | <0.050 | <0.050 | <0.050 | <0.200 | <5.00 | <50.0 | NA | NA | NA |
| EXC-SS-06 @ 7' (40.269612 / -104.797199) | 06/24/19 | 7 | <0.050 | <0.050 | <0.050 | <0.050 | <0.200 | <5.00 | <50.0 | NA | NA | NA |
| EXC-SS-07 @ 7' (40.269647 / -104.797156) | 06/24/19 | 7 | <0.050 | <0.050 | <0.050 | <0.050 | <0.200 | <5.00 | <50.0 | NA | NA | NA |
| EXC-SS-08 @ 7' (40.269643 / -104.797098) | 06/24/19 | 7 | <0.050 | <0.050 | <0.050 | <0.050 | <0.200 | <5.00 | <50.0 | NA | NA | NA |

COGCC = Colorado Oil and Gas Conservation Commission

mg/kg = milligrams per kilogram

mmhos/cm = millimhos per centimeter

NA = Not Analyzed

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

SAR = Sodium Adsorption Ratio

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 Reports



June 21, 2019

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Agricultural Products
Federal #32-17**

Project Number - [none]

Attached are your analytical results for Noble - Agricultural Products Federal #32-17 received by Origins Laboratory, Inc. June 20, 2019. This project is associated with Origins project number Y906355-01.

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 - Agricultural Products Federal
#32-17

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|--------------|---------------|--------|--------------------|------------------|
| Exc-PH-01@5' | Y906355-01 | Soil | June 20, 2019 8:30 | 06/20/2019 12:03 |
| Exc-PH-01@7' | Y906355-02 | Soil | June 20, 2019 8:35 | 06/20/2019 12:03 |
| Exc-PH-02@5' | Y906355-03 | Soil | June 20, 2019 8:50 | 06/20/2019 12:03 |
| Exc-PH-02@7' | Y906355-04 | Soil | June 20, 2019 9:25 | 06/20/2019 12:03 |
| Exc-PH-03@5' | Y906355-05 | Soil | June 20, 2019 8:55 | 06/20/2019 12:03 |
| Exc-PH-03@7' | Y906355-06 | Soil | June 20, 2019 9:00 | 06/20/2019 12:03 |
| Exc-PH-04@5' | Y906355-07 | Soil | June 20, 2019 9:05 | 06/20/2019 12:03 |
| Exc-PH-04@7' | Y906355-08 | Soil | June 20, 2019 9:10 | 06/20/2019 12:03 |
| Exc-PH-05@7' | Y906355-09 | Soil | June 20, 2019 9:20 | 06/20/2019 12:03 |

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 - Agricultural Products Federal #32-17



www.originslaboratory.com

9900355

page 1 of 1

Client: Eagle Env. Consulting, Inc.
 Address: 8000 W. 44th Ave
 Telephone Number: (303) 455-0779
 Email Address: Mce3@eagle-enviro.com

Project Manager: Martin Eckert III
 Project Name: Agricultural Products Federal #32-17
 Project Number: _____
 Samples Collected By: AN/GEC

| Sample ID Description | Date Sampled | Time Sampled | # of Containers | Preservative | | | | Matrix | | | | Analysis | | | | Sample Instructions | |
|-------------------------------------|---------------|--------------|-----------------|---------------------------------|---------------|------------------|-------|--|------|-------------|-------|----------|-----|-----|-------------|---------------------|--|
| | | | | Unpreserved | HCl | HNO ₃ | Other | Groundwater | Soil | Air Summa # | Other | BTEX | Geo | DEG | Asphthalene | | |
| Exc-PH-01 @ 5' | 6/20/19 | 830 | 2 | X | | | | X | | | | | X | X | X | | |
| Exc-PH-01 @ 7' | | 835 | | | | | | | | | | | | | | | |
| Exc-PH-02 @ 5' | | 850 | | | | | | | | | | | | | | | |
| Exc-PH-02 @ 7' | | 925 | | | | | | | | | | | | | | | |
| Exc-PH-03 @ 5' | | 855 | | | | | | | | | | | | | | | |
| Exc-PH-03 @ 7' | | 900 | | | | | | | | | | | | | | | |
| Exc-PH-04 @ 5' | | 905 | | | | | | | | | | | | | | | |
| Exc-PH-04 @ 7' | | 910 | | | | | | | | | | | | | | | |
| Exc-PH-05 @ 7' | | 920 | | | | | | | | | | | | | | | |
| Relinquished By: <u>[Signature]</u> | Date: 6/20/19 | Time: 12:03 | | Received By: <u>[Signature]</u> | Date: 6/20/19 | Time: 17:03 | | Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/> | | | | | | | | | |

Temp Received: 4.1 Date Results Needed: Noble
 Relinquished By: Bill to Jacob

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

Origins Laboratory, Inc.

Jefe Pellegrini

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 - Agricultural Products Federal #32-17

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y906355

Client: Eagle
 Client Project ID: Agricultural Products

Checklist Completed by: JG

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

Date/time completed: 6/20/2019

Airbill #: N/A

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

Cooler Number/Temperature: 1, 4.1 °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"/> | | | |
| 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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaOH, Na2CO3, 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)

Date/Time Reviewed 6/20/19

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 - Agricultural Products Federal #32-17

Exc-PH-01@5'
6/20/2019 8:30:00AM

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

Origins Laboratory, Inc.
Y906355-01 (Soil)

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

| | | | | | | | | | |
|------------------------|--------|--------|-------|---|---------|-----|------------|------------|--|
| Diesel (C10-C28) | 58.9 | 50.0 | mg/kg | 1 | B9F2004 | KDK | 06/20/2019 | 06/20/2019 | |
| Surrogate: o-Terphenyl | 89.3 % | 50-150 | | | " | " | " | " | |

GBTEX + Naphthalene by EPA 8260D

| | | | | | | | | | |
|-----------------------------|----|-------|-------|---|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B9F2003 | KDK | 06/20/2019 | 06/20/2019 | U |
| Benzene | ND | 0.002 | " | " | " | KDK | " | " | U |
| Toluene | ND | 0.002 | " | " | " | KDK | " | " | U |
| Ethylbenzene | ND | 0.002 | " | " | " | KDK | " | " | U |
| Xylenes, total | ND | 0.002 | " | " | " | KDK | " | " | U |
| Naphthalene | ND | 0.008 | " | " | " | KDK | " | " | U |

| | | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 103 % | 70-130 | | | " | " | " | " | |
| Surrogate: Toluene-d8 | 95.7 % | 70-130 | | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 102 % | 70-130 | | | " | " | " | " | |

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

Exc-PH-01@7'
6/20/2019 8:35:00AM

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

Origins Laboratory, Inc.
Y906355-02 (Soil)

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

| | | | | | | | | | |
|------------------|-----|------|-------|---|---------|-----|------------|------------|--|
| Diesel (C10-C28) | 334 | 50.0 | mg/kg | 1 | B9F2004 | KDK | 06/20/2019 | 06/20/2019 | |
|------------------|-----|------|-------|---|---------|-----|------------|------------|--|

| | | | | | | | | | |
|--------------------------------|--------|--------|--|--|---|---|---|---|--|
| Surrogate: <i>o</i> -Terphenyl | 83.2 % | 50-150 | | | " | " | " | " | |
|--------------------------------|--------|--------|--|--|---|---|---|---|--|

GBTEX + Naphthalene by EPA 8260D

| | | | | | | | | | |
|-----------------------------|-------|-------|-------|----|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | 31.3 | 5.00 | mg/kg | 25 | B9F2003 | KDK | 06/20/2019 | 06/20/2019 | |
| Benzene | 0.119 | 0.050 | " | " | " | KDK | " | " | |
| Toluene | ND | 0.050 | " | " | " | KDK | " | " | U |
| Ethylbenzene | 0.132 | 0.050 | " | " | " | KDK | " | " | |
| Xylenes, total | ND | 0.050 | " | " | " | KDK | " | " | U |
| Naphthalene | ND | 0.200 | " | " | " | KDK | " | " | U |

| | | | | | | | | | |
|----------------------------------|-------|--------|--|--|---|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 101 % | 70-130 | | | " | " | " | " | |
| Surrogate: Toluene-d8 | 101 % | 70-130 | | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 106 % | 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 - Agricultural Products Federal #32-17

Exc-PH-02@5'
6/20/2019 8:50:00AM

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

Origins Laboratory, Inc.
Y906355-03 (Soil)

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

| | | | | | | | | | |
|--------------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B9F2004 | KDK | 06/20/2019 | 06/20/2019 | U |
| Surrogate: <i>o</i> -Terphenyl | 74.3 % | 50-150 | | | " | " | " | " | |

GBTEX + Naphthalene by EPA 8260D

| | | | | | | | | | |
|----------------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B9F2003 | KDK | 06/20/2019 | 06/20/2019 | U |
| Benzene | ND | 0.002 | " | " | " | KDK | " | " | U |
| Toluene | ND | 0.002 | " | " | " | KDK | " | " | U |
| Ethylbenzene | ND | 0.002 | " | " | " | KDK | " | " | U |
| Xylenes, total | ND | 0.002 | " | " | " | KDK | " | " | U |
| Naphthalene | ND | 0.008 | " | " | " | KDK | " | " | U |
| Surrogate: 1,2-Dichloroethane-d4 | 122 % | 70-130 | | | " | " | " | " | |
| Surrogate: Toluene-d8 | 98.3 % | 70-130 | | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 103 % | 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 - Agricultural Products Federal #32-17

Exc-PH-02@7'
6/20/2019 9:25:00AM

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

Origins Laboratory, Inc.
Y906355-04 (Soil)

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

| | | | | | | | | | |
|-------------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B9F2004 | KDK | 06/20/2019 | 06/20/2019 | U |
| <i>Surrogate: o-Terphenyl</i> | 80.8 % | 50-150 | | | " | " | " | " | |

GBTEX + Naphthalene by EPA 8260D

| | | | | | | | | | |
|---|--------|--------|-------|---|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B9F2003 | KDK | 06/20/2019 | 06/20/2019 | U |
| Benzene | ND | 0.002 | " | " | " | KDK | " | " | U |
| Toluene | ND | 0.002 | " | " | " | KDK | " | " | U |
| Ethylbenzene | ND | 0.002 | " | " | " | KDK | " | " | U |
| Xylenes, total | ND | 0.002 | " | " | " | KDK | " | " | U |
| Naphthalene | ND | 0.008 | " | " | " | KDK | " | " | U |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 98.2 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: Toluene-d8</i> | 99.1 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 98.9 % | 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 - Agricultural Products Federal #32-17

Exc-PH-03@5'
6/20/2019 8:55:00AM

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

Origins Laboratory, Inc.
Y906355-05 (Soil)

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

| | | | | | | | | | |
|--------------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B9F2004 | KDK | 06/20/2019 | 06/20/2019 | U |
| Surrogate: <i>o</i> -Terphenyl | 73.9 % | 50-150 | | | " | " | " | " | |

GBTEX + Naphthalene by EPA 8260D

| | | | | | | | | | |
|----------------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B9F2003 | KDK | 06/20/2019 | 06/20/2019 | U |
| Benzene | ND | 0.002 | " | " | " | KDK | " | " | U |
| Toluene | ND | 0.002 | " | " | " | KDK | " | " | U |
| Ethylbenzene | ND | 0.002 | " | " | " | KDK | " | " | U |
| Xylenes, total | ND | 0.002 | " | " | " | KDK | " | " | U |
| Naphthalene | ND | 0.008 | " | " | " | KDK | " | " | U |
| Surrogate: 1,2-Dichloroethane-d4 | 103 % | 70-130 | | | " | " | " | " | |
| Surrogate: Toluene-d8 | 97.2 % | 70-130 | | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 98.2 % | 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 - Agricultural Products Federal #32-17

Exc-PH-03@7'
6/20/2019 9:00:00AM

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

Origins Laboratory, Inc.
Y906355-06 (Soil)

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

| | | | | | | | | | |
|-------------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B9F2004 | KDK | 06/20/2019 | 06/20/2019 | U |
| <i>Surrogate: o-Terphenyl</i> | 78.6 % | 50-150 | | | " | " | " | " | |

GBTEX + Naphthalene by EPA 8260D

| | | | | | | | | | |
|---|--------|--------|-------|---|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B9F2003 | KDK | 06/20/2019 | 06/20/2019 | U |
| Benzene | ND | 0.002 | " | " | " | KDK | " | " | U |
| Toluene | ND | 0.002 | " | " | " | KDK | " | " | U |
| Ethylbenzene | ND | 0.002 | " | " | " | KDK | " | " | U |
| Xylenes, total | ND | 0.002 | " | " | " | KDK | " | " | U |
| Naphthalene | ND | 0.008 | " | " | " | KDK | " | " | U |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 99.7 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: Toluene-d8</i> | 98.4 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 98.8 % | 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 - Agricultural Products Federal #32-17

Exc-PH-04@5'
6/20/2019 9:05:00AM

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

Origins Laboratory, Inc.
Y906355-07 (Soil)

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

| | | | | | | | | | |
|--------------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B9F2004 | KDK | 06/20/2019 | 06/20/2019 | U |
| Surrogate: <i>o</i> -Terphenyl | 84.5 % | 50-150 | | | " | " | " | " | |

GBTEX + Naphthalene by EPA 8260D

| | | | | | | | | | |
|----------------------------------|--------|--------|-------|----|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B9F2003 | JTD | 06/20/2019 | 06/20/2019 | U |
| Benzene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Toluene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 0.050 | " | " | " | JTD | " | " | U |
| Naphthalene | ND | 0.200 | " | " | " | JTD | " | " | U |
| Surrogate: 1,2-Dichloroethane-d4 | 100 % | 70-130 | | | " | " | " | " | |
| Surrogate: Toluene-d8 | 102 % | 70-130 | | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 97.8 % | 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 - Agricultural Products Federal #32-17

Exc-PH-04@7'
6/20/2019 9:10:00AM

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

Origins Laboratory, Inc.
Y906355-08 (Soil)

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

| | | | | | | | | | |
|-------------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B9F2004 | KDK | 06/20/2019 | 06/20/2019 | U |
| <i>Surrogate: o-Terphenyl</i> | 74.2 % | 50-150 | | | " | " | " | " | |

GBTEX + Naphthalene by EPA 8260D

| | | | | | | | | | |
|---|--------|--------|-------|----|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B9F2003 | JTD | 06/20/2019 | 06/20/2019 | U |
| Benzene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Toluene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 0.050 | " | " | " | JTD | " | " | U |
| Naphthalene | ND | 0.200 | " | " | " | JTD | " | " | U |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 101 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: Toluene-d8</i> | 99.9 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 96.8 % | 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 - Agricultural Products Federal #32-17

Exc-PH-05@7'
6/20/2019 9:20:00AM

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

Origins Laboratory, Inc.
Y906355-09 (Soil)

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

| | | | | | | | | | |
|------------------------|--------|--------|-------|---|---------|-----|------------|------------|--|
| Diesel (C10-C28) | 73.9 | 50.0 | mg/kg | 1 | B9F2004 | KDK | 06/20/2019 | 06/20/2019 | |
| Surrogate: o-Terphenyl | 87.0 % | 50-150 | | | " | " | " | " | |

GBTEX + Naphthalene by EPA 8260D

| | | | | | | | | | |
|----------------------------------|--------|--------|-------|----|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | 5.67 | 5.00 | mg/kg | 25 | B9F2003 | JTD | 06/20/2019 | 06/20/2019 | |
| Benzene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Toluene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 0.050 | " | " | " | JTD | " | " | U |
| Naphthalene | ND | 0.200 | " | " | " | JTD | " | " | U |
| Surrogate: 1,2-Dichloroethane-d4 | 99.9 % | 70-130 | | | " | " | " | " | |
| Surrogate: Toluene-d8 | 101 % | 70-130 | | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 96.7 % | 70-130 | | | " | " | " | " | |

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

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 B9F2003 - EPA 5030 (soil)

Blank (B9F2003-BLK1)

Prepared: 06/20/2019 Analyzed: 06/20/2019

| | | | | | | | | | | |
|----------------------------------|------|-------|-------|-------|--|------|--------|--|--|---|
| 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 | 0.14 | | " | 0.125 | | 115 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 98.3 | 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 - Agricultural Products Federal #32-17

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 B9F2003 - EPA 5030 (soil)

Blank (B9F2003-BLK2)

Prepared: 06/20/2019 Analyzed: 06/20/2019

| | | | | | | | | | | |
|----------------------------------|------|-------|-------|-------|------|--|--------|--|--|---|
| 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 | 0.13 | | " | 0.125 | 102 | | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.13 | | " | 0.125 | 101 | | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | 99.9 | | 70-130 | | | |

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

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 B9F2003 - EPA 5030 (soil)

LCS (B9F2003-BS1)

Prepared: 06/20/2019 Analyzed: 06/20/2019

| | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|--|------|--------|--|--|--|
| Benzene | 0.096 | 0.002 | mg/kg | 0.100 | | 96.2 | 70-130 | | | |
| Toluene | 0.097 | 0.002 | " | 0.100 | | 97.4 | 70-130 | | | |
| Ethylbenzene | 0.101 | 0.002 | " | 0.100 | | 101 | 70-130 | | | |
| m,p-Xylene | 0.203 | 0.004 | " | 0.200 | | 102 | 70-130 | | | |
| o-Xylene | 0.099 | 0.002 | " | 0.100 | | 99.4 | 70-130 | | | |
| Naphthalene | 0.084 | 0.008 | " | 0.100 | | 83.8 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.12 | | " | 0.125 | | 98.3 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 100 | 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 - Agricultural Products Federal #32-17

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 B9F2003 - EPA 5030 (soil)

LCS (B9F2003-BS2)

Prepared: 06/20/2019 Analyzed: 06/20/2019

| | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|--|------|--------|--|--|--|
| Benzene | 0.104 | 0.002 | mg/kg | 0.100 | | 104 | 70-130 | | | |
| Toluene | 0.111 | 0.002 | " | 0.100 | | 111 | 70-130 | | | |
| Ethylbenzene | 0.111 | 0.002 | " | 0.100 | | 111 | 70-130 | | | |
| m,p-Xylene | 0.218 | 0.004 | " | 0.200 | | 109 | 70-130 | | | |
| o-Xylene | 0.105 | 0.002 | " | 0.100 | | 105 | 70-130 | | | |
| Naphthalene | 0.119 | 0.008 | " | 0.100 | | 119 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.12 | | " | 0.125 | | 97.0 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.13 | | " | 0.125 | | 103 | 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 - Agricultural Products Federal #32-17

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 B9F2003 - EPA 5030 (soil)

| Matrix Spike (B9F2003-MS1) | Source: Y906337-01 | | | Prepared: 06/20/2019 Analyzed: 06/20/2019 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|-------|------|--------|--|--|-------|
| Benzene | 0.075 | 0.002 | mg/kg | 0.100 | ND | 75.1 | 70-130 | | | |
| Toluene | 0.077 | 0.002 | " | 0.100 | ND | 77.5 | 70-130 | | | |
| Ethylbenzene | 0.074 | 0.002 | " | 0.100 | ND | 74.5 | 70-130 | | | |
| m,p-Xylene | 0.150 | 0.004 | " | 0.200 | ND | 75.1 | 70-130 | | | |
| o-Xylene | 0.076 | 0.002 | " | 0.100 | ND | 76.2 | 70-130 | | | |
| Naphthalene | 0.052 | 0.008 | " | 0.100 | 0.001 | 50.6 | 70-130 | | | QM-07 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.14 | | " | 0.125 | | 108 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 99.3 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.13 | | " | 0.125 | | 105 | 70-130 | | | |

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

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 B9F2003 - EPA 5030 (soil)

| Matrix Spike (B9F2003-MS2) | Source: Y906355-03 | | | Prepared: 06/20/2019 Analyzed: 06/20/2019 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|-------|------|--------|--|--|-------|
| Benzene | 0.073 | 0.002 | mg/kg | 0.100 | ND | 73.2 | 70-130 | | | |
| Toluene | 0.085 | 0.002 | " | 0.100 | ND | 84.7 | 70-130 | | | |
| Ethylbenzene | 0.105 | 0.002 | " | 0.100 | ND | 105 | 70-130 | | | |
| m,p-Xylene | 0.209 | 0.004 | " | 0.200 | ND | 104 | 70-130 | | | |
| o-Xylene | 0.096 | 0.002 | " | 0.100 | ND | 96.3 | 70-130 | | | |
| Naphthalene | 0.042 | 0.008 | " | 0.100 | 0.004 | 37.7 | 70-130 | | | QM-07 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.091 | | " | 0.125 | | 73.0 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.14 | | " | 0.125 | | 111 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.13 | | " | 0.125 | | 107 | 70-130 | | | |

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

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 B9F2003 - EPA 5030 (soil)

| Matrix Spike Dup (B9F2003-MSD1) | Source: Y906337-01 | | | Prepared: 06/20/2019 Analyzed: 06/20/2019 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|-------|------|--------|------|----|-------|
| Benzene | 0.074 | 0.002 | mg/kg | 0.100 | ND | 74.2 | 70-130 | 1.21 | 20 | |
| Toluene | 0.069 | 0.002 | " | 0.100 | ND | 69.3 | 70-130 | 11.2 | 20 | QM-07 |
| Ethylbenzene | 0.064 | 0.002 | " | 0.100 | ND | 63.8 | 70-130 | 15.5 | 20 | QM-07 |
| m,p-Xylene | 0.128 | 0.004 | " | 0.200 | ND | 63.9 | 70-130 | 16.1 | 20 | QM-07 |
| o-Xylene | 0.067 | 0.002 | " | 0.100 | ND | 66.6 | 70-130 | 13.4 | 20 | QM-07 |
| Naphthalene | 0.057 | 0.008 | " | 0.100 | 0.001 | 55.8 | 70-130 | 9.58 | 20 | QM-07 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.15 | | " | 0.125 | | 123 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 93.3 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.13 | | " | 0.125 | | 101 | 70-130 | | | |

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

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 B9F2003 - EPA 5030 (soil)

| Matrix Spike Dup (B9F2003-MSD2) | Source: Y906355-03 | | | Prepared: 06/20/2019 Analyzed: 06/20/2019 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|-------|------|--------|-------|----|-------|
| Benzene | 0.084 | 0.002 | mg/kg | 0.100 | ND | 83.7 | 70-130 | 13.4 | 20 | |
| Toluene | 0.084 | 0.002 | " | 0.100 | ND | 84.4 | 70-130 | 0.307 | 20 | |
| Ethylbenzene | 0.085 | 0.002 | " | 0.100 | ND | 85.5 | 70-130 | 20.3 | 20 | QR-03 |
| m,p-Xylene | 0.174 | 0.004 | " | 0.200 | ND | 86.9 | 70-130 | 18.4 | 20 | |
| o-Xylene | 0.088 | 0.002 | " | 0.100 | ND | 87.6 | 70-130 | 9.47 | 20 | |
| Naphthalene | 0.101 | 0.008 | " | 0.100 | 0.004 | 97.1 | 70-130 | 83.3 | 20 | QR-03 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.14 | | " | 0.125 | | 115 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 97.3 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.13 | | " | 0.125 | | 102 | 70-130 | | | |

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

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 B9F2004 - EPA 3580 | | | | | | | | | | |
| Blank (B9F2004-BLK1) | | | | | | | | | | |
| | | | | | Prepared: 06/20/2019 Analyzed: 06/20/2019 | | | | | |
| Diesel (C10-C28) | ND | 50.0 | mg/kg | | | | | | | U |
| Surrogate: o-Terphenyl | 37 | | " | 50.0 | | 74.7 | 50-150 | | | |

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Agricultural Products Federal #32-17

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 B9F2004 - EPA 3580 | | | | | | | | | | |
| Blank (B9F2004-BLK2) | | | | | | | | | | |
| | | | | | Prepared: 06/20/2019 Analyzed: 06/21/2019 | | | | | |
| Diesel (C10-C28) | ND | 50.0 | mg/kg | | | | | | | U |
| Surrogate: o-Terphenyl | 47 | | " | 50.0 | | 93.1 | 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 - Agricultural Products Federal #32-17

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 B9F2004 - EPA 3580

LCS (B9F2004-BS1)

Prepared: 06/20/2019 Analyzed: 06/20/2019

| | | | | | | | | | | |
|------------------------|-----|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28) | 943 | 50.0 | mg/kg | 1000 | | 94.3 | 70-130 | | | |
| Surrogate: o-Terphenyl | 40 | | " | 50.0 | | 79.2 | 50-150 | | | |

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

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 B9F2004 - EPA 3580

LCS (B9F2004-BS2)

Prepared: 06/20/2019 Analyzed: 06/21/2019

| | | | | | | | | | | |
|------------------------|-----|------|-------|------|--|------|--------|--|--|--|
| Diesel (C10-C28) | 964 | 50.0 | mg/kg | 1000 | | 96.4 | 70-130 | | | |
| Surrogate: o-Terphenyl | 47 | | " | 50.0 | | 95.0 | 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 - Agricultural Products Federal #32-17

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 B9F2004 - EPA 3580

| Matrix Spike (B9F2004-MS1) | Source: Y906337-01 | | | Prepared: 06/20/2019 Analyzed: 06/20/2019 | | | | | | |
|-----------------------------------|---------------------------|------|-------|---|------|------|--------|--|--|--|
| Diesel (C10-C28) | 1030 | 50.0 | mg/kg | 1000 | 34.3 | 99.8 | 70-130 | | | |
| Surrogate: o-Terphenyl | 50 | | " | 50.0 | | 99.1 | 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 - Agricultural Products Federal #32-17

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 B9F2004 - EPA 3580

| Matrix Spike (B9F2004-MS2) | Source: Y906355-03 | | | Prepared: 06/20/2019 Analyzed: 06/21/2019 | | | | | | |
|-----------------------------------|---------------------------|------|-------|---|----|------|--------|--|--|--|
| Diesel (C10-C28) | 1040 | 50.0 | mg/kg | 1000 | ND | 104 | 70-130 | | | |
| Surrogate: o-Terphenyl | 50 | | " | 50.0 | | 99.1 | 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 - Agricultural Products Federal #32-17

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 B9F2004 - EPA 3580

| Matrix Spike Dup (B9F2004-MSD1) | Source: Y906337-01 | | | Prepared: 06/20/2019 Analyzed: 06/20/2019 | | | | | | |
|--|---------------------------|------|-------|---|------|------|--------|------|----|--|
| Diesel (C10-C28) | 929 | 50.0 | mg/kg | 1000 | 34.3 | 89.5 | 70-130 | 10.5 | 35 | |
| Surrogate: o-Terphenyl | 43 | | " | 50.0 | | 85.5 | 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 - Agricultural Products Federal #32-17

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 B9F2004 - EPA 3580

| Matrix Spike Dup (B9F2004-MSD2) | Source: Y906355-03 | | | Prepared: 06/20/2019 Analyzed: 06/21/2019 | | | | | | |
|--|---------------------------|------|-------|---|----|------|--------|------|----|--|
| Diesel (C10-C28) | 1010 | 50.0 | mg/kg | 1000 | ND | 101 | 70-130 | 3.18 | 35 | |
| Surrogate: o-Terphenyl | 49 | | " | 50.0 | | 97.8 | 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 - Agricultural Products Federal
#32-17

Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at 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.



June 25, 2019

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

**Project Name - Noble - Agricultural Products
Federal #32-17**

Project Number - [none]

Attached are your analytical results for Noble - Agricultural Products Federal #32-17 received by Origins Laboratory, Inc. June 24, 2019. This project is associated with Origins project number Y906410-01.

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.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Agricultural Products Federal #32-17

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|--------------|---------------|--------|---------------------|------------------|
| EXC-SS-01@7' | Y906410-01 | Soil | June 24, 2019 8:15 | 06/24/2019 15:10 |
| EXC-SS-02@7' | Y906410-02 | Soil | June 24, 2019 10:15 | 06/24/2019 15:10 |
| EXC-SS-03@7' | Y906410-03 | Soil | June 24, 2019 10:30 | 06/24/2019 15:10 |
| EXC-SS-04@7' | Y906410-04 | Soil | June 24, 2019 12:45 | 06/24/2019 15:10 |
| EXC-SS-05@7' | Y906410-05 | Soil | June 24, 2019 12:55 | 06/24/2019 15:10 |
| EXC-SS-06@7' | Y906410-06 | Soil | June 24, 2019 13:30 | 06/24/2019 15:10 |
| EXC-SS-07@7' | Y906410-07 | Soil | June 24, 2019 13:35 | 06/24/2019 15:10 |
| EXC-SS-08@7' | Y906410-08 | Soil | June 24, 2019 13:45 | 06/24/2019 15:10 |

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.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y906410

Client: Eagle
 Client Project ID: Agricultural Products

Checklist Completed by: JG

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Date/Time completed: 6/24/2019

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

Cooler Number/Temperature: 1 / 10.7 °C _____ °C _____ °C (Describe) _____ °C

Thermometer ID: T003

| Requirement Description | Yes | No | N/A | Comments (if any) |
|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 8°C ⁽¹⁾ ? | | <input checked="" type="checkbox"/> | | Same Day |
| 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)

6/24/19
 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.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

EXC-SS-01@7'
6/24/2019 8:15:00AM

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

Origins Laboratory, Inc.
Y906410-01 (Soil)

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

| | | | | | | | | | |
|-------------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B9F2405 | KDK | 06/24/2019 | 06/24/2019 | U |
| <i>Surrogate: o-Terphenyl</i> | 80.0 % | 50-150 | | | " | " | " | " | |

GBTEX + Naphthalene by EPA 8260D

| | | | | | | | | | |
|---|--------|--------|-------|----|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B9F2408 | JTD | 06/24/2019 | 06/24/2019 | U |
| Benzene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Toluene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 0.050 | " | " | " | JTD | " | " | U |
| Naphthalene | ND | 0.200 | " | " | " | JTD | " | " | U |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 96.0 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: Toluene-d8</i> | 100 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 96.5 % | 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.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

EXC-SS-02@7'
6/24/2019 10:15:00AM

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

Origins Laboratory, Inc.
Y906410-02 (Soil)

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

| | | | | | | | | | |
|-------------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B9F2405 | KDK | 06/24/2019 | 06/24/2019 | U |
| <i>Surrogate: o-Terphenyl</i> | 84.7 % | 50-150 | | | " | " | " | " | |

GBTEX + Naphthalene by EPA 8260D

| | | | | | | | | | |
|---|--------|--------|-------|----|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B9F2408 | JTD | 06/24/2019 | 06/24/2019 | U |
| Benzene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Toluene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 0.050 | " | " | " | JTD | " | " | U |
| Naphthalene | ND | 0.200 | " | " | " | JTD | " | " | U |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 96.0 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: Toluene-d8</i> | 99.5 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 96.3 % | 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.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

EXC-SS-03@7'
6/24/2019 10:30:00AM

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

Origins Laboratory, Inc.
Y906410-03 (Soil)

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

| | | | | | | | | | |
|-------------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B9F2405 | KDK | 06/24/2019 | 06/24/2019 | U |
| <i>Surrogate: o-Terphenyl</i> | 75.7 % | 50-150 | | | " | " | " | " | |

GBTEX + Naphthalene by EPA 8260D

| | | | | | | | | | |
|---|--------|--------|-------|----|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B9F2408 | JTD | 06/24/2019 | 06/24/2019 | U |
| Benzene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Toluene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 0.050 | " | " | " | JTD | " | " | U |
| Naphthalene | ND | 0.200 | " | " | " | JTD | " | " | U |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 95.8 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: Toluene-d8</i> | 102 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 96.8 % | 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.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

EXC-SS-04@7'
6/24/2019 12:45:00PM

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

Origins Laboratory, Inc.
Y906410-04 (Soil)

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

| | | | | | | | | | |
|-------------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B9F2405 | KDK | 06/24/2019 | 06/24/2019 | U |
| <i>Surrogate: o-Terphenyl</i> | 79.1 % | 50-150 | | | " | " | " | " | |

GBTEX + Naphthalene by EPA 8260D

| | | | | | | | | | |
|---|--------|--------|-------|----|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B9F2408 | JTD | 06/24/2019 | 06/24/2019 | U |
| Benzene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Toluene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 0.050 | " | " | " | JTD | " | " | U |
| Naphthalene | ND | 0.200 | " | " | " | JTD | " | " | U |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 97.1 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: Toluene-d8</i> | 99.6 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 96.0 % | 70-130 | | | " | " | " | " | |

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

EXC-SS-05@7'
6/24/2019 12:55:00PM

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

Origins Laboratory, Inc.
Y906410-05 (Soil)

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

| | | | | | | | | | |
|-------------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B9F2405 | KDK | 06/24/2019 | 06/24/2019 | U |
| <i>Surrogate: o-Terphenyl</i> | 76.3 % | 50-150 | | | " | " | " | " | |

GBTEX + Naphthalene by EPA 8260D

| | | | | | | | | | |
|---|--------|--------|-------|----|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B9F2408 | JTD | 06/24/2019 | 06/24/2019 | U |
| Benzene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Toluene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 0.050 | " | " | " | JTD | " | " | U |
| Naphthalene | ND | 0.200 | " | " | " | JTD | " | " | U |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 96.2 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: Toluene-d8</i> | 98.9 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 96.7 % | 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.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

EXC-SS-06@7'
6/24/2019 1:30:00PM

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

Origins Laboratory, Inc.
Y906410-06 (Soil)

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

| | | | | | | | | | |
|-------------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B9F2405 | KDK | 06/24/2019 | 06/24/2019 | U |
| <i>Surrogate: o-Terphenyl</i> | 88.4 % | 50-150 | | | " | " | " | " | |

GBTEX + Naphthalene by EPA 8260D

| | | | | | | | | | |
|---|--------|--------|-------|----|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B9F2408 | JTD | 06/24/2019 | 06/24/2019 | U |
| Benzene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Toluene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 0.050 | " | " | " | JTD | " | " | U |
| Naphthalene | ND | 0.200 | " | " | " | JTD | " | " | U |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 96.6 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: Toluene-d8</i> | 101 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 95.7 % | 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.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

EXC-SS-07@7'
6/24/2019 1:35:00PM

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

Origins Laboratory, Inc.
Y906410-07 (Soil)

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

| | | | | | | | | | |
|-------------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B9F2405 | KDK | 06/24/2019 | 06/24/2019 | U |
| <i>Surrogate: o-Terphenyl</i> | 86.4 % | 50-150 | | | " | " | " | " | |

GBTEX + Naphthalene by EPA 8260D

| | | | | | | | | | |
|---|--------|--------|-------|----|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B9F2408 | JTD | 06/24/2019 | 06/24/2019 | U |
| Benzene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Toluene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 0.050 | " | " | " | JTD | " | " | U |
| Naphthalene | ND | 0.200 | " | " | " | JTD | " | " | U |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 96.1 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: Toluene-d8</i> | 101 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 95.7 % | 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.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

EXC-SS-08@7'
6/24/2019 1:45:00PM

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

Origins Laboratory, Inc.
Y906410-08 (Soil)

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

| | | | | | | | | | |
|-------------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B9F2405 | KDK | 06/24/2019 | 06/24/2019 | U |
| <i>Surrogate: o-Terphenyl</i> | 84.5 % | 50-150 | | | " | " | " | " | |

GBTEX + Naphthalene by EPA 8260D

| | | | | | | | | | |
|---|--------|--------|-------|----|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B9F2408 | JTD | 06/24/2019 | 06/24/2019 | U |
| Benzene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Toluene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 0.050 | " | " | " | JTD | " | " | U |
| Naphthalene | ND | 0.200 | " | " | " | JTD | " | " | U |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 97.0 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: Toluene-d8</i> | 98.6 % | 70-130 | | | " | " | " | " | |
| <i>Surrogate: 4-Bromofluorobenzene</i> | 96.7 % | 70-130 | | | " | " | " | " | |

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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

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 B9F2405 - EPA 3580 | | | | | | | | | | |
| Blank (B9F2405-BLK1) | | | | | Prepared: 06/24/2019 Analyzed: 06/24/2019 | | | | | |
| Diesel (C10-C28) | ND | 50.0 | mg/kg | | | | | | | U |
| Surrogate: o-Terphenyl | 43 | | " | 50.0 | | 85.9 | 50-150 | | | |

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 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

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 B9F2405 - EPA 3580 | | | | | | | | | | |
| LCS (B9F2405-BS1) | | | | | Prepared: 06/24/2019 Analyzed: 06/24/2019 | | | | | |
| Diesel (C10-C28) | 919 | 50.0 | mg/kg | 1000 | | 91.9 | 70-130 | | | |
| Surrogate: o-Terphenyl | 47 | | " | 50.0 | | 93.7 | 50-150 | | | |

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 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

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 B9F2405 - EPA 3580

| Matrix Spike (B9F2405-MS1) | Source: Y906374-01 | | | Prepared: 06/24/2019 Analyzed: 06/24/2019 | | | | | | |
|-----------------------------------|---------------------------|------|-------|---|-----|------|--------|--|--|--|
| Diesel (C10-C28) | 1040 | 50.0 | mg/kg | 1000 | 116 | 92.5 | 70-130 | | | |
| Surrogate: o-Terphenyl | 53 | | " | 50.0 | | 106 | 50-150 | | | |

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 Project: Noble - Agricultural Products Federal #32-17

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 B9F2405 - EPA 3580

| Matrix Spike Dup (B9F2405-MSD1) | Source: Y906374-01 | | | Prepared: 06/24/2019 Analyzed: 06/24/2019 | | | | | | |
|--|---------------------------|------|-------|---|-----|------|--------|------|----|--|
| Diesel (C10-C28) | 1080 | 50.0 | mg/kg | 1000 | 116 | 96.7 | 70-130 | 3.93 | 35 | |
| Surrogate: o-Terphenyl | 52 | | " | 50.0 | | 104 | 50-150 | | | |

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 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

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 B9F2408 - EPA 5030 (soil)

Blank (B9F2408-BLK1)

Prepared: 06/24/2019 Analyzed: 06/24/2019

| | | | | | | | | | | |
|----------------------------------|------|-------|-------|-------|--|------|--------|--|--|---|
| 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 | | 97.1 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 100 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 98.6 | 70-130 | | | |

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

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 B9F2408 - EPA 5030 (soil)

LCS (B9F2408-BS1)

Prepared: 06/24/2019 Analyzed: 06/24/2019

| | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|--|------|--------|--|--|--|
| Benzene | 0.104 | 0.002 | mg/kg | 0.100 | | 104 | 70-130 | | | |
| Toluene | 0.107 | 0.002 | " | 0.100 | | 107 | 70-130 | | | |
| Ethylbenzene | 0.106 | 0.002 | " | 0.100 | | 106 | 70-130 | | | |
| m,p-Xylene | 0.212 | 0.004 | " | 0.200 | | 106 | 70-130 | | | |
| o-Xylene | 0.103 | 0.002 | " | 0.100 | | 103 | 70-130 | | | |
| Naphthalene | 0.082 | 0.008 | " | 0.100 | | 81.7 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.12 | | " | 0.125 | | 93.6 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.13 | | " | 0.125 | | 101 | 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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 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

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 B9F2408 - EPA 5030 (soil)

| Matrix Spike (B9F2408-MS1) | Source: Y906410-01 | | | Prepared: 06/24/2019 Analyzed: 06/24/2019 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|-------|------|--------|--|--|-------|
| Benzene | 2.69 | 0.050 | mg/kg | 2.50 | ND | 108 | 70-130 | | | |
| Toluene | 2.76 | 0.050 | " | 2.50 | ND | 110 | 70-130 | | | |
| Ethylbenzene | 2.78 | 0.050 | " | 2.50 | ND | 111 | 70-130 | | | |
| m,p-Xylene | 5.46 | 0.100 | " | 5.00 | ND | 109 | 70-130 | | | |
| o-Xylene | 2.62 | 0.050 | " | 2.50 | ND | 105 | 70-130 | | | |
| Naphthalene | 1.66 | 0.200 | " | 2.50 | 0.014 | 65.9 | 70-130 | | | QM-07 |
| Surrogate: 1,2-Dichloroethane-d4 | 2.8 | | " | 3.12 | | 90.1 | 70-130 | | | |
| Surrogate: Toluene-d8 | 3.2 | | " | 3.12 | | 102 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 3.1 | | " | 3.12 | | 97.9 | 70-130 | | | |

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Agricultural Products Federal #32-17

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 B9F2408 - EPA 5030 (soil)

| Matrix Spike Dup (B9F2408-MSD1) | Source: Y906410-01 | | | Prepared: 06/24/2019 Analyzed: 06/24/2019 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|-------|------|--------|------|----|--|
| Benzene | 2.63 | 0.050 | mg/kg | 2.50 | ND | 105 | 70-130 | 2.38 | 20 | |
| Toluene | 2.63 | 0.050 | " | 2.50 | ND | 105 | 70-130 | 4.86 | 20 | |
| Ethylbenzene | 2.68 | 0.050 | " | 2.50 | ND | 107 | 70-130 | 3.58 | 20 | |
| m,p-Xylene | 5.28 | 0.100 | " | 5.00 | ND | 106 | 70-130 | 3.20 | 20 | |
| o-Xylene | 2.59 | 0.050 | " | 2.50 | ND | 104 | 70-130 | 1.19 | 20 | |
| Naphthalene | 2.02 | 0.200 | " | 2.50 | 0.014 | 80.2 | 70-130 | 19.4 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 2.9 | | " | 3.12 | | 94.2 | 70-130 | | | |
| Surrogate: Toluene-d8 | 3.1 | | " | 3.12 | | 99.8 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 3.1 | | " | 3.12 | | 98.1 | 70-130 | | | |

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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Agricultural Products Federal
#32-17

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.

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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ATTACHMENT B

Safety Data Sheets

WPX®

Powdered Reactivated Carbon

Applications



Industrial Wastewater



Ground Water



Surface Water



Remediation Water Treatment



Environmental Water

WPX has many applications in many varied industries and markets.

- Municipal Wastewater
- Industrial Wastewater
- Sludge Stabilization
- Soil Remediation
- Agricultural and Industrial Spill Sites

Description

WPX is a powdered activated carbon produced from reactivated granular carbons. WPX powdered reactivated carbon is ideally suited for the removal of toxic compounds, dyes, and/or refractory organic chemicals from wastewaters. The high iodine number of WPX allows for adsorption of a wide range of organic chemicals present in industrial wastewater. WPX has also proved to be effective in stabilizing soil and sludge, and is used in remediation stabilization/solidification processes. WPX powdered reactivated carbon is not to be used for Food Grade or Potable Water applications.

Features / Benefits

- Manufactured from reactivated carbon
- High activity
- Broad range of adsorbed organics
- Good settling characteristics
- Economical alternative to virgin powdered activated carbon

Specifications

| | WPC |
|-------------------------------|---------|
| Iodine Number, mg/g | 800 min |
| Moisture (As packaged), wt% | 4 max |
| < 325 US Mesh [0.045 mm], wt% | 60–80 |

Safety Message

Wet activated carbon can deplete oxygen from air in enclosed spaces. If use in an enclosed space is required, procedures for work in an oxygen deficient environment should be followed.

1.800.4CARBON calgoncarbon.com

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DS-WPX15-EIN-E1

GYPSUM

SECTION 1. IDENTIFICATION

| | |
|--------------------------------------|--|
| Product Identifier | GYPSUM |
| Other Means of Identification | Calcium Sulfate Dihydrate |
| Product Family | Calcium Source |
| Recommended Use | Drilling Fluid Additive. |
| Supplier Identifier | Bri-Chem Supply Corp, 9351 Grant Street, Ste 380, Thornton, CO, 80229, 720-236-1012, www.brichemsupplycorp.com |
| Emergency Phone No. | ChemTrec, (800) 424-9300, 24/7 |

SECTION 2. HAZARD IDENTIFICATION

Classification

Eye irritation - Category 2B

Label Elements

Inhalation: Exposure to dust generated during the handling or use of the product may cause temporary irritation to eyes, skin, nose, throat, and upper respiratory tract. Persons subjected to large amounts of this dust will be forced to leave area because of nuisance conditions such as coughing, sneezing and nasal irritation. Labored breathing may occur after excessive inhalation. If respiratory symptoms persist, consult physician.

Eyes: Dust can cause temporary mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult physician.

Chronic:

Inhalation: Exposures to respirable crystalline silica rare not expected during the normal use of this product; however, actual levels must be determined by workplace hygiene testing. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. The risk of developing silicosis is dependent upon the exposure intensity and duration.

Target Organs:

Eyes, skin and respiratory system.

Primary Routes of Entry:

Inhalation, eyes and skin contact.

Carcinogenicity Classification of Ingredients:

All substances listed are associated with the nature of the raw materials used in the manufacture of this product and are not independent components of the product formulation. All substances, if present, are at levels well below regulatory limits. See Section 11: Toxicology Information for detailed information.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No. | % | Other Identifiers |
|--------------------|------------|-----|-------------------|
| Gypsum | 13397-24-5 | >95 | |
| Crystalline Silica | 14808-60-7 | <1 | |

Notes

All ingredients of this product are included in the U.S Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory and the Canadian Domestic Substances List (DSL). * The weight percent for silica represents total quartz and not the respirable fraction.

Product Identifier: GYPSUM

Date of Preparation: October 30, 2015

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SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove to fresh air as soon as possible. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen and get medical attention.

Skin Contact

Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes. If skin irritation occurs, get medical advice or attention.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If adverse symptoms persist, seek medical attention.

Ingestion

If conscious give 2 to 4 glasses of water to drink but DO NOT induce vomiting. If swallowed, give patient large quantities of water then induce vomiting. NEVER give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing.

Most Important Symptoms and Effects, Acute and Delayed

If in eyes:

May cause mild irritation.

Immediate Medical Attention and Special Treatment

Target Organs

Lungs, eyes.

Medical Conditions Aggravated by Exposure

Bronchitis, Emphysema and Asthma.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Dry chemical, CO₂, foam, water.

Specific Hazards Arising from the Product

None known.

Decomposes to sulfur dioxide at 2642°F.

Special Protective Equipment and Precautions for Fire-fighters

Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

It is good practice to prevent releases into the environment. Do not wash down drains since it could plug drains.

Methods and Materials for Containment and Cleaning Up

Remove by dry-sweeping or vacuum. Avoid creating excessive dust. Wear approved respirators if necessary.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid generating dust. Wear approved respirator if necessary. Keep product dry.

Handle in accordance with good industrial hygiene and safety practice. It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Product Identifier: GYPSUM

Date of Preparation: October 30, 2015

Page 02 of 05

Conditions for Safe Storage

Store in a dry area to minimize potential for clumping due to moisture absorption. The presence of moisture will harden gypsum during storage.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

(gypsum) and (calcium carbonate)

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. 10 mg/m³

OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. 15 mg/m³ (total dust); 5 mg/m³ (respirable dust)

(silica, quartz)

ACGIH® = American Conference of Governmental Industrial Hygienists. TWA = Time-Weighted Average. 0.025 mg/m³ (respirable fraction)

OSHA = US Occupational Safety and Health Administration. TWA = Time-Weighted Average. 30 mg/m³ divided by the value of "%SiO₂ + 2" (total quartz) 10 mg/m³ divided by the value of "%SiO₂ + 2" (respirable)

OSHA Z3 TWA: 250 mppcf divided by the value of "%SiO₂+5" (respirable)

OSHA Z-1-A and OSHA Z3 TWA: 0.1 mg/m³ (respirable fraction)

Immediately dangerous to life or health concentration value: 50 mg/m³.

Appropriate Engineering Controls

Use adequate general or local exhaust ventilation to keep dust levels as low as possible. None required where adequate ventilation conditions exist.

Individual Protection Measures

Eye/Face Protection

Use safety glasses or goggles.

Skin Protection

Gloves are not required but may be desirable under certain working conditions or to protect against drying of hands.

Respiratory Protection

None required where adequate ventilation conditions exist. A dust mask for nuisance dust can be used. If airborne concentrations of any hazardous ingredients exceed the TLV or PEL, use a NIOSH-approved respirator.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

| | |
|--|---|
| Appearance | White - Off-white powder. Particle Size: Varies |
| Odour | Slight |
| Odour Threshold | Not available |
| pH | ~ 7 |
| Melting Point/Freezing Point | 1559.85 °F (melting); Not available (freezing) |
| Initial Boiling Point/Range | Not available |
| Evaporation Rate | Not available |
| Upper/Lower Flammability or Explosive Limit | Not available (upper); Not available (lower) |
| Vapour Pressure | Not available |
| Solubility | ~ 21 g/100 mL (Slightly soluble) in water |
| Auto-ignition Temperature | Not available |
| Decomposition Temperature | 2642 °F (1450 °C) |
| Viscosity | Not available (kinematic) |
| Other Information | |
| Physical State | Solid |
| Molecular Formula | (CaSO ₄ -2H ₂ O) |
| Molecular Weight | ~172g/mole |
| Bulk Density | 721 - 2403 kg/m ³ (45 - 150 lb/ft ³) |

Product Identifier: GYPSUM

Date of Preparation: October 30, 2015

Page 03 of 05

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Conditions to Avoid

None known.

Incompatible Materials

Aluminum, strong acids.

Hazardous Decomposition Products

Above 1450 C - calcium oxide (CaO) and sulfur dioxide (SO₂).

SECTION 11. TOXICOLOGICAL INFORMATION

Treat as a nuisance dust.

Likely Routes of Exposure

Inhalation.

Acute Toxicity

The acute oral toxicity study [OECD TG 420] of calcium sulfate dihydrate showed that this chemical did not cause any changes even at 2,000 mg/kg b.w. Therefore, the oral LD₅₀ value was more than 2,000 mg/kg b.w. for female rats. Gypsum paste applied experimentally to the eyes of rabbits was not an irritant. Gypsum dust particulate has shown an irritant action on mucous membranes of the respiratory tract and eyes. The sulfate ion has caused gastrointestinal disturbance in humans following large oral doses. Limited studies involving the repeated inhalation of an (unspecified) calcium sulfate failed to identify any particular target organs in monkeys, rats and hamsters. No evidence of mutagenicity was found in Ames bacterial tests.

Skin Corrosion/Irritation

May temporarily cause drying of the skin.

May cause temporary drying of the skin.

Serious Eye Damage/Irritation

May cause mild irritation.

May cause eye irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Mild irritant at high concentrations.

Persons exposed to large amounts of dust may experience nuisance conditions, including coughing, sneezing and nasal irritation.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

None known for gypsum. Prolonged and repeated exposure to crystalline silica by inhalation may cause silicosis and lung cancer.

None known for gypsum. Prolonged or repeated exposure to crystalline silica by inhalation may cause silicosis and lung cancer.

Carcinogenicity

(silica quartz):

IARC: Group 1 – Carcinogenic to humans.

NTP: Reasonably anticipated human carcinogen.

Crystalline Silica: Exposures to respirable crystalline silica are not expected during the normal use of this product; however, actual levels must be determined by workplace hygiene testing. The weight percent of respirable crystalline silica may not have been measured in this product. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e. silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. Smoking in combination with silica exposures increases the risk of cancer. The risk of developing silicosis is dependent upon the exposure intensity and duration.

In June, 1997 IARC classified crystalline silica (quartz and cristobalite) as a human carcinogen. In making the overall

Product Identifier: GYPSUM

Date of Preparation: October 30, 2015

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evaluation, the IARC Working Group noted that carcinogenicity in humans was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs. IARC states that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to human (Group 1).

No information was located for: Respiratory and/or Skin Sensitization, Development of Offspring, Sexual Function and Fertility, Germ Cell Mutagenicity, Interactive Effects

SECTION 12. ECOLOGICAL INFORMATION

This product has shown no known adverse effect on ecology. Toxicity studies of gypsum performed with fish, aquatic vertebrates and aquatic plants showed no toxic effect.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with federal, state and local government regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated under US DOT Regulations.

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

Additional USA Regulatory Lists

- CERCLA, SARA Section 302, 304, 313, CAA Section 112 and RCRA Code: Not Listed.

SECTION 16. OTHER INFORMATION

NFPA Rating **Health - 1** **Flammability - 0** **Instability - 0**

SDS Prepared By Bri-Chem Supply Corp

Date of Preparation October 30, 2015

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Product Identifier: GYPSUM

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