



March 20, 2019

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

**Site Assessment Report and Remediation Proposal
Wells Ranch AE 32 Econode
Flow Line Release
40.4440 / -104.3552
SW¼ NW¼ SEC.32 T6N R62W 6PM
Weld County, Colorado
Remediation # 12140**

Dear Mr. Evans:

Eagle Environmental Consulting, Inc. (EAGLE) is pleased to provide Noble Energy, Inc. (Noble) with this Site Assessment Report and Remediation Proposal for the above-referenced site.

1.0 SITE BACKGROUND

During production, a produced water dump line unintentionally released at the Wells Ranch AE 32 Econode. On May 9, 2018, EAGLE was requested by Noble to perform subsurface assessment activities in response to potential petroleum hydrocarbon impacts associated with the flow line release. Upon arrival, EAGLE collected soil samples (SS-01 through SS-09) around the flow line release area to identify any petroleum hydrocarbon impacts above Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 regulatory limits.

The following narrative details assessment and proposed remediation activities at the site.

1.1 Site Description

The Wells Ranch AE 32 Econode site is located within the southwest quarter of the northwest quarter of Section 32, Township 6 North, Range 62 West, of the 6th Prime Meridian, in Weld County, Colorado. The flow line release associated with the site was located at latitude: 40.4440 and longitude: -104.3552. A topographic site location map is presented as Figure 1.

1.2 Site Hydrogeology

The soil lithology observed beneath the release location consists of road base from the ground surface to approximately 2 feet below ground surface (bgs), underlain by dense to very dense, clayey sand from approximately 2 feet bgs to 15 feet bgs. Groundwater was not observed during assessment activities.

2.0 INITIAL ASSESSMENT ACTIVITIES

On May 9, 2018, Noble requested EAGLE to perform subsurface assessment activities at the site in response to potential petroleum hydrocarbon impacts as a result of an unintentional produced water dump line release associated with the Wells Ranch AE 32 Econode. Upon arrival, EAGLE observed two limited hydrovac excavations completed by 1888 Industrial Services (1888) and collected soil samples (SS-01 through SS-09) around the release area.

Following sample collection, a portion of each soil sample was placed in a sealable plastic bag for volatile organic compound (VOC) headspace analysis utilizing a field calibrated photoionization detector (PID). Another portion of the soil sample was placed in a 2-ounce glass jar and packed in an iced cooler.

Based on location and PID readings, EAGLE submitted nine (9) soil samples (SS-01@9', SS-02@7', SS-03@6', SS-04@6', SS-05@6', SS-06@8', SS-07@7', SS-08@6', and SS-09@6') to Origins Laboratory, Inc. (Origins) located in Denver, Colorado, under standard chain of custody (COC) procedures. The soil samples were analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, total petroleum hydrocarbons – gasoline range organics (TPH-GRO), and total petroleum hydrocarbons – diesel range organics (TPH-DRO) following modified Environmental Protection Agency (EPA) Methods 8260c and 8015. The soil samples were received within the required holding time for each laboratory analysis. Spatial location of each soil sample location was recorded using a Trimble GeoXT 6000 series instrument. A site map presenting the soil sample locations is included in Figure 2.

Approximately 80 barrels (bbls) of slurry (approx. 12 cubic yards) were removed and transported for disposal to Republic Services, located in Commerce City, Colorado.

2.1 Initial Assessment Laboratory Analytical Results

Based on soil laboratory analytical results:

- Soil samples SS-01@9', SS-02@7', SS-03@6', SS-08@6', and SS-09@6' contained concentrations of benzene (10.1 milligrams per kilogram (mg/kg), 9.80 mg/kg, 19.6 mg/kg, 18.8 mg/kg, and 3.91 mg/kg, respectively) and total petroleum hydrocarbons (TPH) (9,860 mg/kg, 11,610 mg/kg, 9,610 mg/kg, 8,280 mg/kg, and 3,990 mg/kg, respectively) exceeding their applicable COGCC Table 910-1 regulatory limits of 0.17 mg/kg and 500 mg/kg.
- Soil sample SS-03@6' contained a concentration of toluene (90.0 mg/kg) exceeding the COGCC Table 910-1 regulatory limit of 85 mg/kg.
- Soil samples SS-04@6', SS-05@6', SS-06@8', and SS-07@7', did not contain concentrations of BTEX, naphthalene, or TPH exceeding applicable COGCC Table 910-1 regulatory limits.

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

3.0 POTHOLE ASSESSMENT ACTIVITIES

In January 2019, EAGLE returned to the site to vertically and laterally define adsorbed petroleum hydrocarbon impacts at the site. Due to health and safety concerns regarding the current infrastructure at the site, assessment activities were completed utilizing a hydrovac operated by 1888 and a stainless-steel hand auger. On January 17, 2019, EAGLE and Noble utilized 1888 to advance eight (8) potholes (PH-01 through PH-08) adjacent to previously identified soil impacts above COGCC Table 910-1 regulatory limits. Hydrovac and/or hand auger refusal was encountered between 10 and 15 feet bgs.

Based on location and PID readings, EAGLE collected 16 soil samples (PH-01@10-11', PH-01@14-15', PH-02@8-9', PH-02@14-15', PH-03@10-11', PH-03@14-15', PH-04@10-11', PH-04@12-13', PH-05@10-11', PH-05@12-13', PH-06@8-9', PH-06@9-10', PH-07@12-13', PH-07@14-15', PH-08@12-13', and PH-08@14-15') for laboratory analysis. The soil samples were analyzed for BTEX, naphthalene, TPH-GRO, and TPH-DRO following modified EPA Methods 8260c and 8015. The soil samples were received within the required holding time for each laboratory analysis. Spatial location of each pothole soil sample location was recorded using a Trimble GeoXT 6000 series instrument. A site map presenting the pothole soil sample locations is included in Figure 3.

Approximately 40 bbls of slurry (approx. 6 cubic yards) were removed and transported for disposal to Republic Services, located in Commerce City, Colorado.

3.1 Pothole Assessment Laboratory Analytical Results

Based on soil laboratory analytical results:

- Soil samples PH-01@10-11', PH-01@14-15', PH-02@8-9', PH-02@14-15', PH-03@10-11', PH-03@14-15', and PH-04@12-13' contained concentrations of benzene (4.20 mg/kg, 18.5 mg/kg, 0.293 mg/kg, 6.42 mg/kg, 0.675 mg/kg, 0.890 mg/kg, and 0.247 mg/kg, respectively) exceeding the COGCC Table 910-1 regulatory limit of 0.17 mg/kg.
- Soil samples PH-01@10-11', PH-01@14-15', PH-02@8-9', PH-02@14-15', PH-03@10-11', PH-03@14-15', PH-04@10-11', PH-04@12-13', and PH-06@8-9' contained concentrations of TPH (5,360 mg/kg, 8,790 mg/kg, 624 mg/kg, 4,460 mg/kg, 1,669 mg/kg, 1,981 mg/kg, 691 mg/kg, 763 mg/kg, and 1,248 mg/kg, respectively) exceeding the COGCC Table 910-1 regulatory limit 500 mg/kg.
- Soil samples PH-05@10-11', PH-05@12-13', PH-06@9-10', PH-07@12-13', PH-07@14-15', PH-08@12-13', and PH-08@14-15' did not contain concentrations of BTEX, naphthalene, or TPH exceeding applicable COGCC Table 910-1 regulatory limits.

Pothole soil analytical results are summarized in Table 1 and presented in Figure 3. The laboratory analytical report is included in Attachment A.

4.0 PROPOSED REMEDIAL ACTIVITIES

Vertical and lateral definition of the soil impacts is limited due to overall health and safety concerns at the site. Based on the location of adsorbed petroleum hydrocarbon impacts at the site relative to on-going oil and gas (O&G) operations (above-ground and below-ground utilities and/or infrastructure), soil vapor extraction (SVE) is proposed to address residual soil impacts.

EAGLE proposes the installation of five (5) SVE remedial wells within close proximity of previously identified soil impacts at the site, taking into account onsite health and safety concerns. SVE wells will be installed via hydrovac and/or direct-push technology utilizing a 7822 DT Series Geoprobe track rig. Installation procedures will be dictated by above-ground infrastructure and below-ground utility lines. Each location will be completed with 2-inch, schedule 40, poly-vinyl chloride (PVC) pipe to a maximum depth of 20 feet. Total depth of each well will be limited to 15 feet if required to be installed via hydrovac.

Approximately 10 to 15 feet of 0.020 factory slotted, 2-inch PVC screen will be placed at the bottom of each boring followed by solid PVC riser to grade. The well annulus will be backfilled with 10/20 silica

sand to approximately 1-foot above the screen section, following by a hydrated bentonite seal to the surface. Each SVE well will be finished to grade with a traffic-rated steel flush mount.

Following SVE well installation, EAGLE will complete individual 2-hour pilot test activities on each SVE well. Following approximately 2-hours of operation, an SVE effluent air sample will be collected and submitted to Origins for BTEX, and TPH-GRO analysis following EPA Air Method TO-15. An effective radius of influence (ROI) on each location will be evaluated by the relative concentrations of each individual air sample.

Following pilot test activities and ROI evaluation, EAGLE will perform bi-weekly, SVE activities, utilizing a mobile remediation system, on the SVE wells that had detectable BTEX and TPH-GRO concentrations from the pilot test. The mobile SVE unit will consist of a Tuthill, 15-horse power (HP) positive displacement blower. Following operation of the SVE unit, effluent air samples will be collected to monitor petroleum hydrocarbon VOC removal at the site. Overall remedial progress will be confirmed by decreasing concentrations within each air sample. Remedial activities will be complete pending non-detect laboratory analytical results. A proposed SVE remedial well location map is presented in Figure 4.

4.1 Confirmation Soil Sampling

Following SVE remediation activities, confirmation soil samples will be collected to determine if soil meets COGCC Table 910-1 regulatory limits. Confirmation soil samples will be collected from locations with petroleum hydrocarbon impacts above COGCC Table 910-1 regulatory limits identified during assessment activities.

5.0 CONCLUSIONS

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

- Soil samples SS-01 through SS-09 were collected on May 9, 2018 following hydrovac excavation activities, adjacent to an unintentional flow line release at the Wells Ranch AE 32 Econode. Approximately 80 bbls. of slurry (approx. 12 cubic yards of soil) were removed for disposal.
- Soil samples SS-01@9', SS-02@7', SS-03@6', SS-08@6', and SS-09@6' contained concentrations of benzene and TPH exceeding applicable COGCC Table 910-1 regulatory limits.
- Soil sample SS-03@6' contained a concentration of toluene exceeding the applicable COGCC Table 910-1 regulatory limit.
- EAGLE returned on January 17, 2019 to laterally and vertically define soil impacts. Sixteen soil samples were collected from eight potholes (PH-01 through PH-08). Approximately 40 bbls of slurry (approx. 6 cubic yards of soil) were removed for disposal.
- Soil samples PH-01@10-11', PH-01@14-15', PH-02@8-9', PH-02@14-15', PH-03@10-11', PH-03@14-15', and PH-04@12-13' contained concentrations of benzene exceeding the COGCC Table 910-1 regulatory limit.
- Soil samples PH-01@10-11', PH-01@14-15', PH-02@8-9', PH-02@14-15', PH-03@10-11', PH-03@14-15', PH-04@10-11', PH-04@12-13', and PH-06@8-9' contained concentrations of TPH exceeding the COGCC Table 910-1 regulatory limit.

- Soil is not vertically defined adjacent to soil samples SS-01@9', SS-02@7', SS-03@6', SS-08@6', PH-01@14-15', PH-02@14-15', PH-03@14-15', and PH-04@12-13', but due to current infrastructure and safety concerns, vertical definition cannot be achieved at this time.

6.0 RECOMMENDATIONS

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

- Install soil vapor extraction remedial wells adjacent to residual adsorbed petroleum hydrocarbon impacts and complete SVE pilot testing activities.
- Continue bi-weekly SVE remedial activities until vapor effluent samples are non-detect.
- Collect confirmation soil samples from locations with petroleum hydrocarbon impacts above COGCC Table 910-1 regulatory limits identified during assessment activities.

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

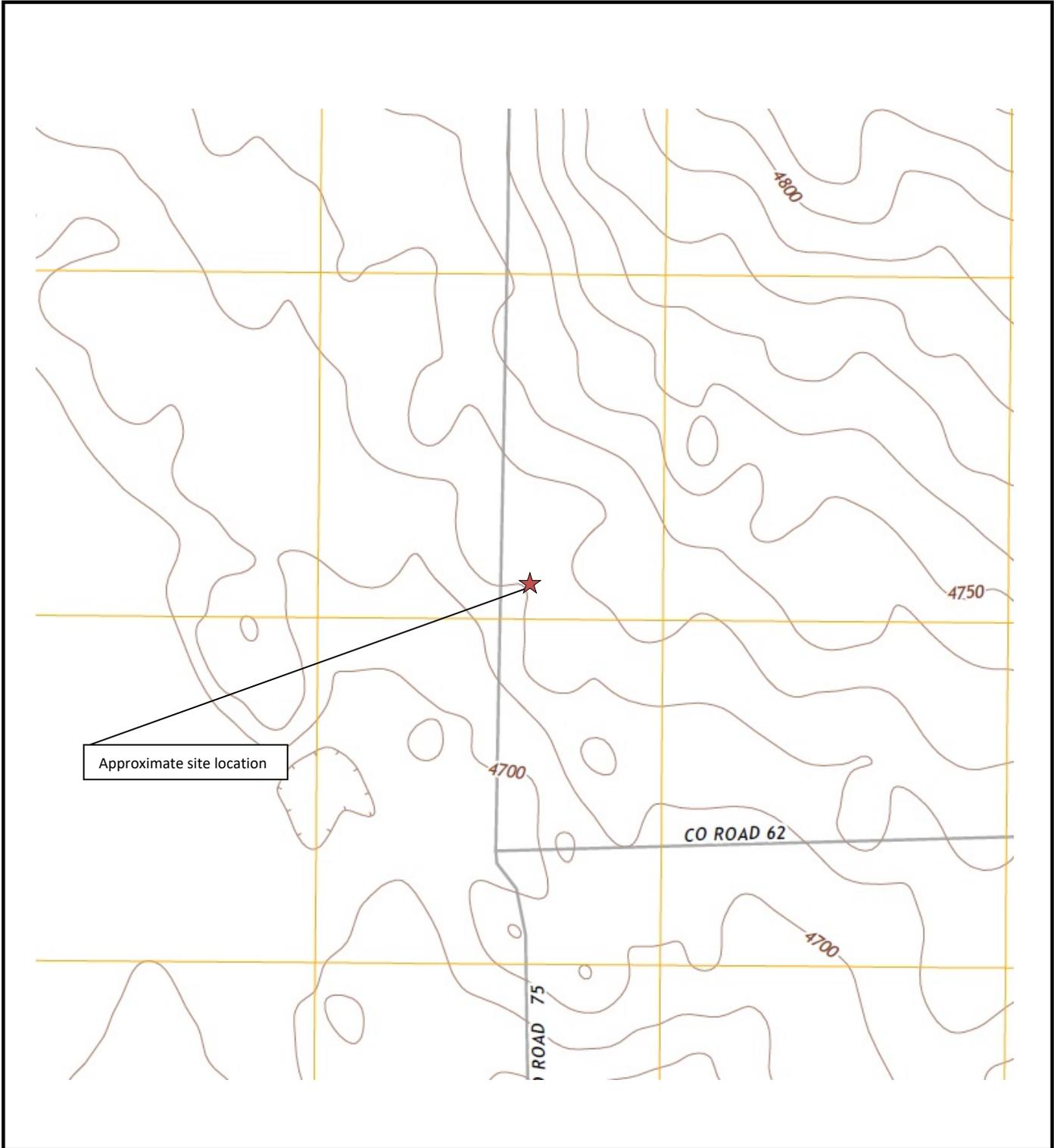
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Initial Assessment Soil Analytical Map

Figure 3: Pothole Assessment Map

Figure 4: Proposed Soil Vapor Extraction Well Location





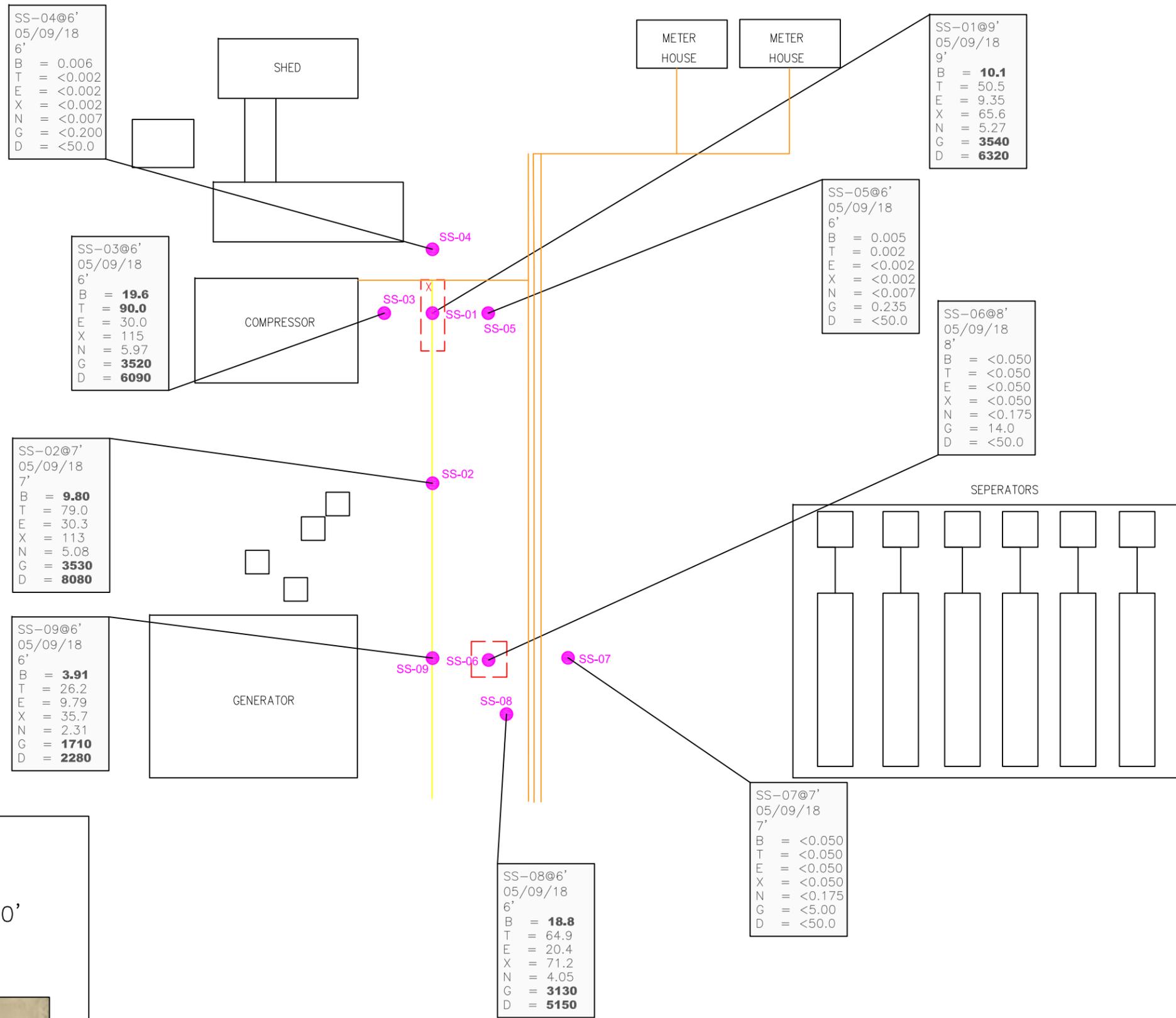
Topographic Site Location Map
 Wells Ranch AE32 Econode
 Flow Line Release
 40.4440 / -104.3552
 SW¼ NW¼ SEC.32 T6N R62W 6PM
 Weld County, Colorado
 Remediation # 12140



EAGLE
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Source: USGS 7.5 Minute Topographic Map, Point of Rocks, CO Quadrangle 2013

Figure 1



LEGEND

- X APPROXIMATE RELEASE LOCATION
- ABOVEGROUND INFRASTRUCTURE
- APPROXIMATE UNDERGROUND (ABANDONED) LINE
- APPROXIMATE ABOVE GROUND FLOWLINE LOCATIONS
- - - APPROXIMATE SURFACING/EXCAVATION BOUNDARIES 05/09/18
- 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) |
|----------------------|----------|--------------|---------------------|---------------------|--------------------------|---------------------------|-------------------------|---------------------|---------------------|
| SS-04@6' | 05/09/18 | 6' | 0.006 | <0.002 | <0.002 | <0.002 | <0.007 | <0.200 | <50.0 |
| SS-03@6' | 05/09/18 | 6' | 19.6 | 90.0 | 30.0 | 115 | 5.97 | 3520 | 6090 |
| SS-02@7' | 05/09/18 | 7' | 9.80 | 79.0 | 30.3 | 113 | 5.08 | 3530 | 8080 |
| SS-09@6' | 05/09/18 | 6' | 3.91 | 26.2 | 9.79 | 35.7 | 2.31 | 1710 | 2280 |
| SS-01@9' | 05/09/18 | 9' | 10.1 | 50.5 | 9.35 | 65.6 | 5.27 | 3540 | 6320 |
| SS-05@6' | 05/09/18 | 6' | 0.005 | 0.002 | <0.002 | <0.002 | <0.007 | 0.235 | <50.0 |
| SS-06@8' | 05/09/18 | 8' | <0.050 | <0.050 | <0.050 | <0.050 | <0.175 | 14.0 | <50.0 |
| SS-07@7' | 05/09/18 | 7' | <0.050 | <0.050 | <0.050 | <0.050 | <0.175 | <5.00 | <50.0 |
| SS-08@6' | 05/09/18 | 6' | 18.8 | 64.9 | 20.4 | 71.2 | 4.05 | 3130 | 5150 |

mg/kg = MILLIGRAMS PER KILOGRAM

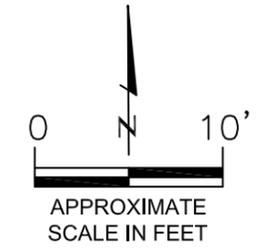
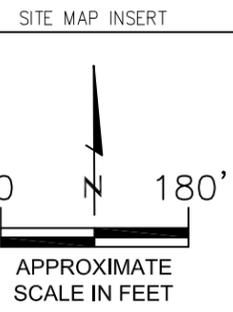
TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS

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 IN **BOLD** EXCEED COGCC TABLE 910-1 REGULATORY LIMITS.

COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION

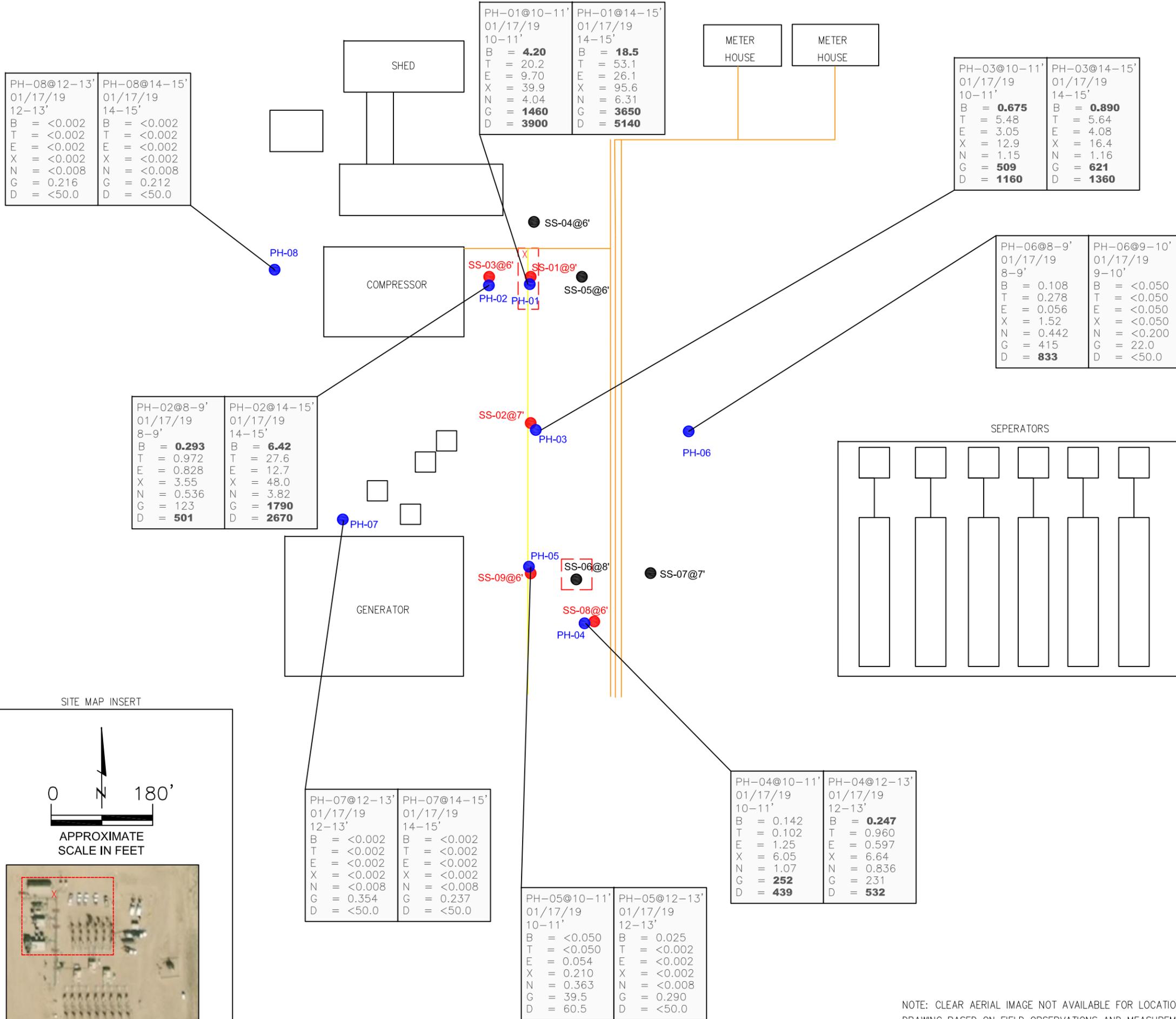


NOTE: CLEAR AERIAL IMAGE NOT AVAILABLE FOR LOCATION.
DRAWING BASED ON FIELD OBSERVATIONS AND MEASUREMENTS

INITIAL ASSESSMENT SOIL ANALYTICAL MAP
WELLS RANCH AE32 ECONODE
FLOW LINE RELEASE
40.4440 / -104.3552
SW1/4 NW1/4 SEC.32 T6N R62W 6PM
WELD COUNTY, COLORADO
REMEDATION # 12140

| | |
|----------|----------|
| DATE | 01/22/19 |
| FIG. NO. | 2 |
| DRAWN BY | amn |

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



| | |
|------------------------------------|------------------------------------|
| PH-08@12-13' 01/17/19 12-13' | PH-08@14-15' 01/17/19 14-15' |
| B = <0.002 | B = <0.002 |
| T = <0.002 | T = <0.002 |
| E = <0.002 | E = <0.002 |
| X = <0.002 | X = <0.002 |
| N = <0.008 | N = <0.008 |
| G = 0.216 | G = 0.212 |
| D = <50.0 | D = <50.0 |

| | |
|------------------------------------|------------------------------------|
| PH-01@10-11' 01/17/19 10-11' | PH-01@14-15' 01/17/19 14-15' |
| B = 4.20 | B = 18.5 |
| T = 20.2 | T = 53.1 |
| E = 9.70 | E = 26.1 |
| X = 39.9 | X = 95.6 |
| N = 4.04 | N = 6.31 |
| G = 1460 | G = 3650 |
| D = 3900 | D = 5140 |

| | |
|------------------------------------|------------------------------------|
| PH-03@10-11' 01/17/19 10-11' | PH-03@14-15' 01/17/19 14-15' |
| B = 0.675 | B = 0.890 |
| T = 5.48 | T = 5.64 |
| E = 3.05 | E = 4.08 |
| X = 12.9 | X = 16.4 |
| N = 1.15 | N = 1.16 |
| G = 509 | G = 621 |
| D = 1160 | D = 1360 |

| | |
|--------------------------------|------------------------------------|
| PH-02@8-9' 01/17/19 8-9' | PH-02@14-15' 01/17/19 14-15' |
| B = 0.293 | B = 6.42 |
| T = 0.972 | T = 27.6 |
| E = 0.828 | E = 12.7 |
| X = 3.55 | X = 48.0 |
| N = 0.536 | N = 3.82 |
| G = 123 | G = 1790 |
| D = 501 | D = 2670 |

| | |
|--------------------------------|----------------------------------|
| PH-06@8-9' 01/17/19 8-9' | PH-06@9-10' 01/17/19 9-10' |
| B = 0.108 | B = <0.050 |
| T = 0.278 | T = <0.050 |
| E = 0.056 | E = <0.050 |
| X = 1.52 | X = <0.050 |
| N = 0.442 | N = <0.200 |
| G = 415 | G = 22.0 |
| D = 833 | D = <50.0 |

| | |
|------------------------------------|------------------------------------|
| PH-07@12-13' 01/17/19 12-13' | PH-07@14-15' 01/17/19 14-15' |
| B = <0.002 | B = <0.002 |
| T = <0.002 | T = <0.002 |
| E = <0.002 | E = <0.002 |
| X = <0.002 | X = <0.002 |
| N = <0.008 | N = <0.008 |
| G = 0.354 | G = 0.237 |
| D = <50.0 | D = <50.0 |

| | |
|------------------------------------|------------------------------------|
| PH-04@10-11' 01/17/19 10-11' | PH-04@12-13' 01/17/19 12-13' |
| B = 0.142 | B = 0.247 |
| T = 0.102 | T = 0.960 |
| E = 1.25 | E = 0.597 |
| X = 6.05 | X = 6.64 |
| N = 1.07 | N = 0.836 |
| G = 252 | G = 231 |
| D = 439 | D = 532 |

| | |
|------------------------------------|------------------------------------|
| PH-05@10-11' 01/17/19 10-11' | PH-05@12-13' 01/17/19 12-13' |
| B = <0.050 | B = 0.025 |
| T = <0.050 | T = <0.002 |
| E = 0.054 | E = <0.002 |
| X = 0.210 | X = <0.002 |
| N = 0.363 | N = <0.008 |
| G = 39.5 | G = 0.290 |
| D = 60.5 | D = <50.0 |

- LEGEND**
- X APPROXIMATE RELEASE LOCATION
 - ABOVEGROUND INFRASTRUCTURE
 - APPROXIMATE UNDERGROUND (ABANDONED) LINE
 - APPROXIMATE ABOVE GROUND FLOWLINE LOCATIONS
 - - - APPROXIMATE SURFACING/EXCAVATION BOUNDARIES 05/09/18
 - SS-02 APPROXIMATE LOCATION OF INITIAL SOIL SAMPLES BELOW COGCC TABLE 910-1 REGULATORY LIMITS
 - SS-02 APPROXIMATE LOCATION OF INITIAL SOIL SAMPLES ABOVE COGCC TABLE 910-1 REGULATORY LIMITS
 - APPROXIMATE POTHOLE ASSESSMENT LOCATIONS

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

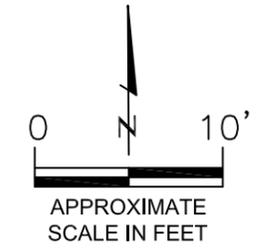
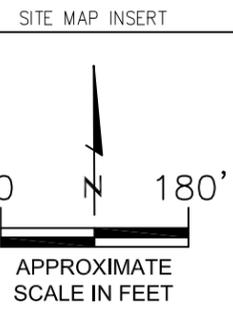
TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS

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 IN **BOLD** EXCEED COGCC TABLE 910-1 REGULATORY LIMITS.

COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION

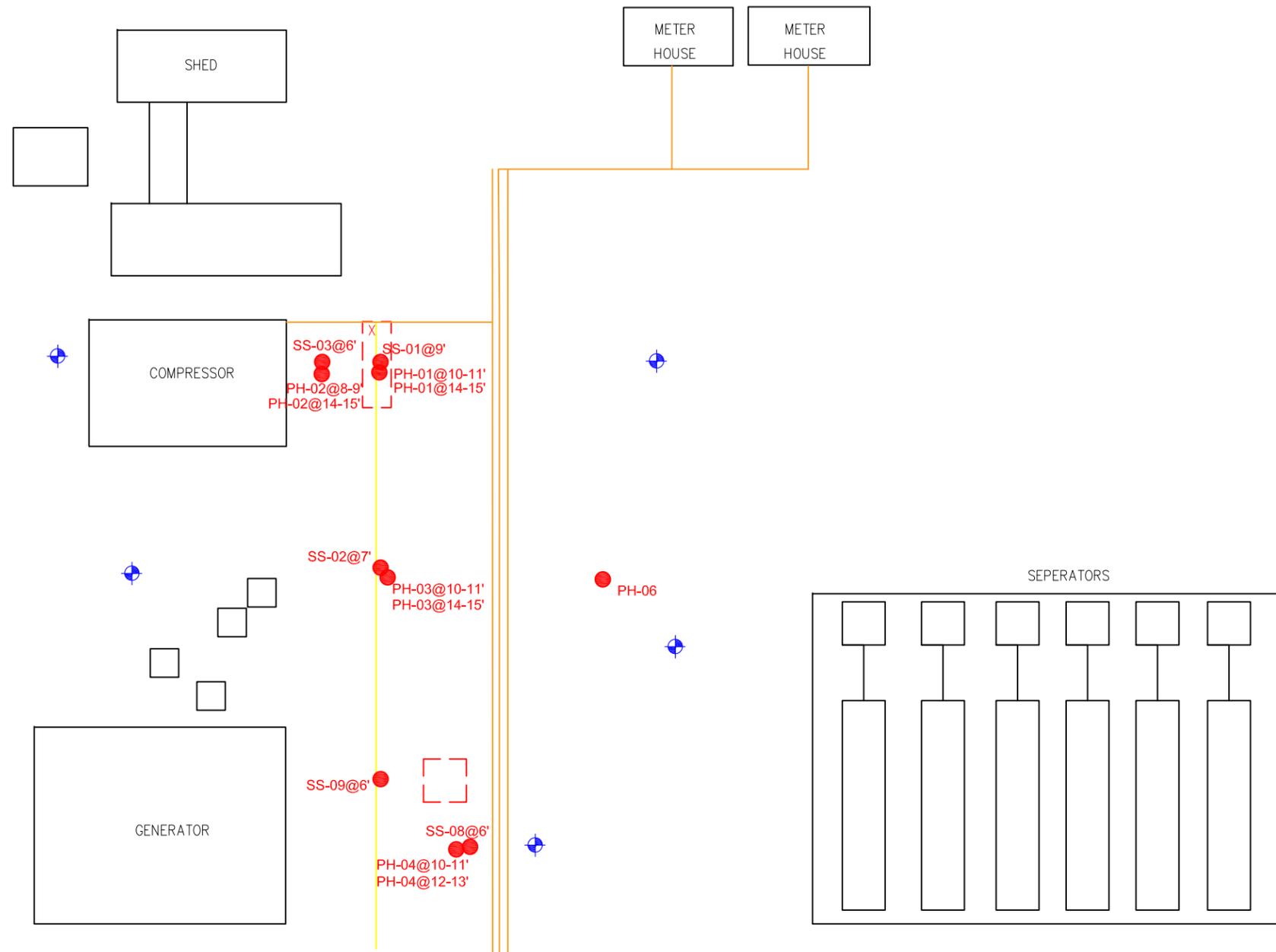


POTHOLE ASSESSMENT MAP
WELLS RANCH AE32 ECONODE
FLOW LINE RELEASE
40.4440 / -104.3552
SW1/4 NW1/4 SEC.32 T6N R62W 6PM
WELD COUNTY, COLORADO
REMEDATION # 12140

NOTE: CLEAR AERIAL IMAGE NOT AVAILABLE FOR LOCATION.
DRAWING BASED ON FIELD OBSERVATIONS AND MEASUREMENTS

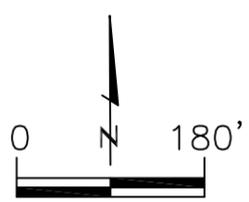
| | |
|----------|----------|
| DATE | 01/22/19 |
| FIG. NO. | 3 |
| DRAWN BY | amn |

EAGLE
ENVIRONMENTAL
CONSULTING, INC.
4101 INCA STREET, DENVER, CO 80211
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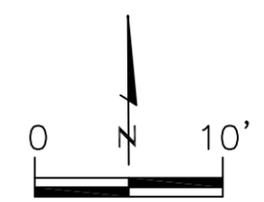


- LEGEND**
- X APPROXIMATE RELEASE LOCATION
 - ABOVEGROUND INFRASTRUCTURE
 - APPROXIMATE UNDERGROUND (ABANDONED) LINE
 - APPROXIMATE ABOVE GROUND FLOWLINE LOCATIONS
 - - - APPROXIMATE SURFACING/EXCAVATION BOUNDARIES 05/09/18
 - SS-02 APPROXIMATE LOCATION INITIAL SOIL SAMPLES ABOVE COGCC TABLE 910-1 REGULATORY LIMITS
 - ⊕ PROPOSED SOIL VAPOR EXTRACTION WELL LOCATIONS

SITE MAP INSERT



APPROXIMATE SCALE IN FEET



APPROXIMATE SCALE IN FEET

PROPOSED SOIL VAPOR EXTRACTION WELL LOCATION MAP
 WELLS RANCH AE32 ECONODE
 FLOW LINE RELEASE
 40.4440 / -104.3552
 SW1/4 NW1/4 SEC.32 T6N R62W 6PM
 WELD COUNTY, COLORADO
 REMEDIATION # 12140

NOTE: CLEAR AERIAL IMAGE NOT AVAILABLE FOR LOCATION.
 DRAWING BASED ON FIELD OBSERVATIONS AND MEASUREMENTS

| | |
|----------|----------|
| DATE | 03/18/19 |
| FIG. NO. | 4 |
| DRAWN BY | amn |

EAGLE
 ENVIRONMENTAL
 CONSULTING, INC.
 4101 INCA STREET, DENVER, CO 80211
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TABLES

Table 1: Soil Analytical Results Summary

**TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
WELLS RANCH AE 32 ECOCODE
FLOW LINE RELEASE
40.4440 / -104.3552
SW1/4 NW1/4 SEC.32 T6N R62W 6PM
WELD COUNTY, COLORADO
REMEDIATION # 12140**

| Sample Location (Latitude/Longitude) | Date | Approximate Depth (feet) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Total Xylenes (mg/kg) | Naphthalene (mg/kg) | TPH-GRO (mg/kg) | TPH-DRO (mg/kg) |
|--|----------|--------------------------------|--------------------|--------------------|-------------------------|-----------------------------|------------------------|--------------------|--------------------|
| COGCC Table 910-1 Regulatory Limits (mg/kg) | | | 0.17 | 85 | 100 | 175 | 23 | 500 | |
| SS-01 @ 9' (40.443805782 / -104.355188906) | 05/09/18 | 9 | 10.1 | 50.5 | 9.35 | 65.6 | 5.27 | 3540 | 6320 |
| SS-02 @ 7' (40.443773212 / -104.355184696) | 05/09/18 | 7 | 9.80 | 79.0 | 30.3 | 113 | 5.08 | 3530 | 8080 |
| SS-03 @ 6' (40.443814348 / -104.355200477) | 05/09/18 | 6 | 19.6 | 90.0 | 30.0 | 115 | 5.97 | 3520 | 6090 |
| SS-04 @ 6' (40.443824696 / -104.355188227) | 05/09/18 | 6 | 0.006 | <0.002 | <0.002 | <0.002 | <0.007 | <0.200 | <50.0 |
| SS-05 @ 6' (40.443805372 / -104.355171177) | 05/09/18 | 6 | 0.005 | 0.002 | <0.002 | <0.002 | <0.007 | 0.235 | <50.0 |
| SS-06 @ 8' (40.443726401 / -104.355189284) | 05/09/18 | 8 | <0.050 | <0.050 | <0.050 | <0.050 | <0.175 | 14.0 | <50.0 |
| SS-07 @ 7' (40.433725717 / -104.355170263) | 05/09/18 | 7 | <0.050 | <0.050 | <0.050 | <0.050 | <0.175 | <5.00 | <50.0 |
| SS-08 @ 6' (40.44372107 / -104.355188625) | 05/09/18 | 6 | 18.8 | 64.9 | 20.4 | 71.2 | 4.05 | 3130 | 5150 |
| SS-09 @ 6' (40.443726389 / -104.35520129) | 05/09/18 | 6 | 3.91 | 26.2 | 9.79 | 35.7 | 2.31 | 1710 | 2280 |
| PH-01 @ 10-11' (40.443805782 / -104.355188906) | 01/17/19 | 10-11.0 | 4.20 | 20.2 | 9.70 | 39.9 | 4.04 | 1460 | 3900 |
| PH-01 @ 14-15' (40.443805782 / -104.355188906) | 01/17/19 | 14-15.0 | 18.5 | 53.1 | 26.1 | 95.6 | 6.31 | 3650 | 5140 |
| PH-02 @ 8-9' (40.443814348 / -104.355200477) | 01/17/19 | 8-9.0 | 0.293 | 0.972 | 0.828 | 3.55 | 0.536 | 123 | 501 |
| PH-02 @ 14-15' (40.443814348 / -104.355200477) | 01/17/19 | 14-15.0 | 6.42 | 27.6 | 12.7 | 48.0 | 3.82 | 1790 | 2670 |
| PH-03 @ 10-11' (40.443773212 / -104.355184696) | 01/17/19 | 10-11.0 | 0.675 | 5.48 | 3.05 | 12.9 | 1.15 | 509 | 1160 |
| PH-03 @ 14-15' (40.443773212 / -104.355184696) | 01/17/19 | 14-15.0 | 0.890 | 5.64 | 4.08 | 16.4 | 1.16 | 621 | 1360 |



TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
WELLS RANCH AE 32 ECOCODE
FLOW LINE RELEASE
40.4440 / -104.3552
SW1/4 NW1/4 SEC.32 T6N R62W 6PM
WELD COUNTY, COLORADO
REMEDIATION # 12140

| Sample Location (Latitude/Longitude) | Date | Approximate Depth (feet) | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Total Xylenes (mg/kg) | Naphthalene (mg/kg) | TPH-GRO (mg/kg) | TPH-DRO (mg/kg) |
|--|----------|--------------------------------|--------------------|--------------------|-------------------------|-----------------------------|------------------------|--------------------|--------------------|
| COGCC Table 910-1 Regulatory Limits (mg/kg) | | | 0.17 | 85 | 100 | 175 | 23 | 500 | |
| PH-04 @ 10-11' (40.44372107 / -104.355188625) | 01/17/19 | 10-11.0 | 0.142 | 0.102 | 1.25 | 6.05 | 1.07 | 252 | 439 |
| PH-04 @ 12-13' (40.44372107 / -104.355188625) | 01/17/19 | 12-13.0 | 0.247 | 0.960 | 0.597 | 6.64 | 0.836 | 231 | 532 |
| PH-05 @ 10-11' (40.443726389 / -104.35520129) | 01/17/19 | 10-11.0 | <0.050 | <0.050 | 0.054 | 0.210 | 0.363 | 39.5 | 60.5 |
| PH-05 @ 12-13' (40.443726389 / -104.35520129) | 01/17/19 | 12-13.0 | 0.025 | <0.002 | <0.002 | <0.002 | <0.008 | 0.290 | <50.0 |
| PH-06 @ 8-9' (40.443770362 / -104.355141909) | 01/17/19 | 8-9.0 | 0.108 | 0.278 | 0.056 | 1.52 | 0.442 | 415 | 833 |
| PH-06 @ 9-10' (40.443770362 / -104.355141909) | 01/17/19 | 9-10.0 | <0.050 | <0.050 | <0.050 | <0.050 | <0.200 | 22.0 | <50.0 |
| PH-07 @ 12-13' (40.443700479 / -104.355307349) | 01/17/19 | 12-13.0 | <0.002 | <0.002 | <0.002 | <0.002 | <0.008 | 0.354 | <50.0 |
| PH-07 @ 14-15' (40.443700479 / -104.355307349) | 01/17/19 | 14-15.0 | <0.002 | <0.002 | <0.002 | <0.002 | <0.008 | 0.237 | <50.0 |
| PH-08 @ 12-13' (40.443807778 / -104.355334288) | 01/17/19 | 12-13.0 | <0.002 | <0.002 | <0.002 | <0.002 | <0.008 | 0.216 | <50.0 |
| PH-08 @ 14-15' (40.443807778 / -104.355334288) | 01/17/19 | 14-15.0 | <0.002 | <0.002 | <0.002 | <0.002 | <0.008 | 0.212 | <50.0 |

COGCC = Colorado Oil and Gas Conservation Commission

mg/kg = milligrams per kilogram

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.

Note: Values presented in **BOLD** contained concentrations exceeding COGCC Table 910-1 Regulatory Limits



ATTACHMENT A

Laboratory Analytical Reports



May 10, 2018

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

**Project Name - Noble - Wells Ranch AE32
Econode**

Project Number - [none]

Attached are your analytical results for Noble - Wells Ranch AE32 Econode received by Origins Laboratory, Inc. May 09, 2018. This project is associated with Origins project number Y805148-01.

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 - Wells Ranch AE32 Econode

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|-------------------|------------------|
| SS-01 @ 9' | Y805148-01 | Soil | May 9, 2018 12:25 | 05/09/2018 15:16 |
| SS-02 @ 7' | Y805148-02 | Soil | May 9, 2018 10:58 | 05/09/2018 15:16 |
| SS-03 @ 6' | Y805148-03 | Soil | May 9, 2018 11:34 | 05/09/2018 15:16 |
| SS-04 @ 6' | Y805148-04 | Soil | May 9, 2018 11:18 | 05/09/2018 15:16 |
| SS-05 @ 6' | Y805148-05 | Soil | May 9, 2018 11:15 | 05/09/2018 15:16 |
| SS-06 @ 8' | Y805148-06 | Soil | May 9, 2018 11:45 | 05/09/2018 15:16 |
| SS-07 @ 7' | Y805148-07 | Soil | May 9, 2018 11:54 | 05/09/2018 15:16 |
| SS-08 @ 6' | Y805148-08 | Soil | May 9, 2018 12:09 | 05/09/2018 15:16 |
| SS-09 @ 6' | Y805148-09 | Soil | May 9, 2018 12:39 | 05/09/2018 15:16 |

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 - Wells Ranch AE32 Econode

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1905148

Client: Eagle

Client Project ID: Noble - Wells Ranch AE32 Econode

Checklist Completed by: JG

Shipped Via: HD

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

Date/time completed: 5/9/2018

Airbill #: N/A

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

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

Thermometer ID: T003

| Requirement Description | Yes | No | N/A | Comments (if any) |
|--|-----|----|-----|-------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ? | / | | | |
| Is there ice present (document if blue ice is used) | / | | | |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact) | | / | | |
| Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact) | | / | | |
| Were all samples received intact ⁽¹⁾ ? | / | | | |
| Was adequate sample volume provided ⁽¹⁾ ? | / | | | |
| Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ? | / | / | | |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | / | | | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | / | | | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | / | | | |
| Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ? | / | | | |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative. | | | / | |
| 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) | | / | | |
| 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

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 - Wells Ranch AE32 Econode

SS-01 @ 9'
5/9/2018 12:25:00PM

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

Origins Laboratory, Inc.
Y805148-01 (Soil)

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

| | | | | | | | | |
|------------------------|--------|--------|-------|---|---------|------------|------------|--|
| Diesel (C10-C28) | 6320 | 50.0 | mg/kg | 1 | B8E0903 | 05/09/2018 | 05/09/2018 | |
| Surrogate: o-Terphenyl | 84.3 % | 59-131 | | | " | " | " | |

GBTEX + Napthalene by 8260C

| | | | | | | | | |
|----------------------------------|--------|--------|-------|------|---------|------------|------------|--|
| Gasoline Range Hydrocarbons | 3540 | 500 | mg/kg | 2500 | B8E0907 | 05/09/2018 | 05/10/2018 | |
| Benzene | 10.1 | 4.98 | " | " | " | " | " | |
| Toluene | 50.5 | 4.98 | " | " | " | " | " | |
| Ethylbenzene | 9.35 | 4.98 | " | " | " | " | " | |
| Xylenes, total | 65.6 | 4.98 | " | " | " | " | " | |
| Naphthalene | 5.27 | 0.175 | " | 25 | " | " | 05/09/2018 | |
| Surrogate: 1,2-Dichloroethane-d4 | 92.2 % | 70-130 | | | " | " | 05/10/2018 | |
| Surrogate: Toluene-d8 | 83.8 % | 70-130 | | | " | " | 05/09/2018 | |
| Surrogate: 4-Bromofluorobenzene | 100 % | 70-130 | | | " | " | 05/10/2018 | |

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 - Wells Ranch AE32 Econode

SS-02 @ 7'
5/9/2018 10:58:00AM

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

Origins Laboratory, Inc.
Y805148-02 (Soil)

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

| | | | | | | | | |
|--------------------------------|-------------|--------|-------|---|---------|------------|------------|--|
| Diesel (C10-C28) | 8080 | 50.0 | mg/kg | 1 | B8E0903 | 05/09/2018 | 05/09/2018 | |
| Surrogate: <i>o</i> -Terphenyl | 108 % | 59-131 | | | " | " | " | |

GBTEX + Napthalene by 8260C

| | | | | | | | | |
|----------------------------------|-------------|--------|-------|------|---------|------------|------------|--|
| Gasoline Range Hydrocarbons | 3530 | 500 | mg/kg | 2500 | B8E0907 | 05/09/2018 | 05/10/2018 | |
| Benzene | 9.80 | 4.98 | " | " | " | " | " | |
| Toluene | 79.0 | 4.98 | " | " | " | " | " | |
| Ethylbenzene | 30.3 | 4.98 | " | " | " | " | " | |
| Xylenes, total | 113 | 4.98 | " | " | " | " | " | |
| Naphthalene | 5.08 | 0.175 | " | 25 | " | " | 05/09/2018 | |
| Surrogate: 1,2-Dichloroethane-d4 | 126 % | 70-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 96.8 % | 70-130 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 99.0 % | 70-130 | | | " | " | 05/10/2018 | |

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 - Wells Ranch AE32 Econode

SS-03 @ 6'
5/9/2018 11:34:00AM

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

Origins Laboratory, Inc.
Y805148-03 (Soil)

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

| | | | | | | | | |
|--------------------------------|--------|--------|-------|---|---------|------------|------------|--|
| Diesel (C10-C28) | 6090 | 50.0 | mg/kg | 1 | B8E0903 | 05/09/2018 | 05/09/2018 | |
| Surrogate: <i>o</i> -Terphenyl | 88.8 % | 59-131 | | | " | " | " | |

GBTEX + Napthalene by 8260C

| | | | | | | | | |
|----------------------------------|--------|--------|-------|------|---------|------------|------------|--|
| Gasoline Range Hydrocarbons | 3520 | 500 | mg/kg | 2500 | B8E0907 | 05/09/2018 | 05/10/2018 | |
| Benzene | 19.6 | 4.98 | " | " | " | " | " | |
| Toluene | 90.0 | 4.98 | " | " | " | " | " | |
| Ethylbenzene | 30.0 | 4.98 | " | " | " | " | " | |
| Xylenes, total | 115 | 4.98 | " | " | " | " | " | |
| Naphthalene | 5.97 | 0.175 | " | 25 | " | " | 05/09/2018 | |
| Surrogate: 1,2-Dichloroethane-d4 | 99.8 % | 70-130 | | | " | " | 05/10/2018 | |
| Surrogate: Toluene-d8 | 97.7 % | 70-130 | | | " | " | 05/09/2018 | |
| Surrogate: 4-Bromofluorobenzene | 97.6 % | 70-130 | | | " | " | 05/10/2018 | |

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 - Wells Ranch AE32 Econode

SS-04 @ 6'
5/9/2018 11:18:00AM

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

Origins Laboratory, Inc.
Y805148-04 (Soil)

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

| | | | | | | | | |
|--------------------------------|--------|--------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B8E0903 | 05/09/2018 | 05/09/2018 | U |
| Surrogate: <i>o</i> -Terphenyl | 94.4 % | 59-131 | | | " | " | " | |

GBTEX + Napthalene by 8260C

| | | | | | | | | |
|----------------------------------|--------------|--------|-------|---|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 0.200 | mg/kg | 1 | B8E0907 | 05/09/2018 | 05/10/2018 | U |
| Benzene | 0.006 | 0.002 | " | " | " | " | " | |
| Toluene | ND | 0.002 | " | " | " | " | " | U |
| Ethylbenzene | ND | 0.002 | " | " | " | " | " | U |
| Xylenes, total | ND | 0.002 | " | " | " | " | " | U |
| Napthalene | ND | 0.007 | " | " | " | " | " | U |
| Surrogate: 1,2-Dichloroethane-d4 | 105 % | 70-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 95.6 % | 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.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

SS-05 @ 6'
5/9/2018 11:15:00AM

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

Origins Laboratory, Inc.
Y805148-05 (Soil)

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

| | | | | | | | | |
|--------------------------------|--------|--------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B8E0903 | 05/09/2018 | 05/09/2018 | U |
| Surrogate: <i>o</i> -Terphenyl | 97.1 % | 59-131 | | | " | " | " | |

GBTEX + Napthalene by 8260C

| | | | | | | | | |
|----------------------------------|--------------|--------|-------|---|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | 0.235 | 0.200 | mg/kg | 1 | B8E0907 | 05/09/2018 | 05/10/2018 | |
| Benzene | 0.005 | 0.002 | " | " | " | " | " | |
| Toluene | 0.002 | 0.002 | " | " | " | " | " | |
| Ethylbenzene | ND | 0.002 | " | " | " | " | " | U |
| Xylenes, total | ND | 0.002 | " | " | " | " | " | U |
| Napthalene | ND | 0.007 | " | " | " | " | " | U |
| Surrogate: 1,2-Dichloroethane-d4 | 108 % | 70-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 96.0 % | 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.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

SS-06 @ 8'
5/9/2018 11:45:00AM

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

Origins Laboratory, Inc.
Y805148-06 (Soil)

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

| | | | | | | | | |
|------------------------|-------|--------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B8E0903 | 05/09/2018 | 05/09/2018 | U |
| Surrogate: o-Terphenyl | 106 % | 59-131 | | | " | " | " | |

GBTEX + Napthalene by 8260C

| | | | | | | | | |
|----------------------------------|--------|--------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | 14.0 | 5.00 | mg/kg | 25 | B8E0907 | 05/09/2018 | 05/09/2018 | |
| Benzene | ND | 0.050 | " | " | " | " | " | U |
| Toluene | ND | 0.050 | " | " | " | " | " | U |
| Ethylbenzene | ND | 0.050 | " | " | " | " | " | U |
| Xylenes, total | ND | 0.050 | " | " | " | " | " | U |
| Napthalene | ND | 0.175 | " | " | " | " | " | U |
| Surrogate: 1,2-Dichloroethane-d4 | 82.4 % | 70-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 115 % | 70-130 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 100 % | 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 - Wells Ranch AE32 Econode

SS-07 @ 7'
 5/9/2018 11:54:00AM

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

Origins Laboratory, Inc.
 Y805148-07 (Soil)

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

| | | | | | | | | |
|------------------------|--------|--------|-------|---|---------|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B8E0903 | 05/09/2018 | 05/09/2018 | U |
| Surrogate: o-Terphenyl | 96.2 % | 59-131 | | | " | " | " | |

GBTEX + Napthalene by 8260C

| | | | | | | | | |
|----------------------------------|--------|--------|-------|----|---------|------------|------------|---|
| Gasoline Range Hydrocarbons | ND | 5.00 | mg/kg | 25 | B8E0907 | 05/09/2018 | 05/09/2018 | U |
| Benzene | ND | 0.050 | " | " | " | " | " | U |
| Toluene | ND | 0.050 | " | " | " | " | " | U |
| Ethylbenzene | ND | 0.050 | " | " | " | " | " | U |
| Xylenes, total | ND | 0.050 | " | " | " | " | " | U |
| Napthalene | ND | 0.175 | " | " | " | " | " | U |
| Surrogate: 1,2-Dichloroethane-d4 | 86.2 % | 70-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 96.3 % | 70-130 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 96.6 % | 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 - Wells Ranch AE32 Econode

SS-08 @ 6'
5/9/2018 12:09:00PM

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

Origins Laboratory, Inc.
Y805148-08 (Soil)

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

| | | | | | | | | |
|------------------------|--------|--------|-------|---|---------|------------|------------|--|
| Diesel (C10-C28) | 5150 | 50.0 | mg/kg | 1 | B8E0903 | 05/09/2018 | 05/09/2018 | |
| Surrogate: o-Terphenyl | 62.5 % | 59-131 | | | " | " | " | |

GBTEX + Napthalene by 8260C

| | | | | | | | | |
|----------------------------------|--------|--------|-------|-----|---------|------------|------------|--|
| Gasoline Range Hydrocarbons | 3130 | 50.0 | mg/kg | 250 | B8E0907 | 05/09/2018 | 05/10/2018 | |
| Benzene | 18.8 | 0.498 | " | " | " | " | " | |
| Toluene | 64.9 | 0.498 | " | " | " | " | " | |
| Ethylbenzene | 20.4 | 0.498 | " | " | " | " | " | |
| Xylenes, total | 71.2 | 0.498 | " | " | " | " | " | |
| Naphthalene | 4.05 | 0.175 | " | 25 | " | " | 05/09/2018 | |
| Surrogate: 1,2-Dichloroethane-d4 | 121 % | 70-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 101 % | 70-130 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 97.8 % | 70-130 | | | " | " | 05/10/2018 | |

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

SS-09 @ 6'
5/9/2018 12:39:00PM

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

Origins Laboratory, Inc.
Y805148-09 (Soil)

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

| | | | | | | | | |
|------------------------|-------|--------|-------|---|---------|------------|------------|-------|
| Diesel (C10-C28) | 2280 | 50.0 | mg/kg | 1 | B8E0903 | 05/09/2018 | 05/09/2018 | |
| Surrogate: o-Terphenyl | 184 % | 59-131 | | | " | " | " | S-DUP |

GBTEX + Napthalene by 8260C

| | | | | | | | | |
|----------------------------------|-------|--------|-------|-----|---------|------------|------------|--|
| Gasoline Range Hydrocarbons | 1710 | 50.0 | mg/kg | 250 | B8E0907 | 05/09/2018 | 05/10/2018 | |
| Benzene | 3.91 | 0.050 | " | 25 | " | " | 05/09/2018 | |
| Toluene | 26.2 | 0.498 | " | 250 | " | " | 05/10/2018 | |
| Ethylbenzene | 9.79 | 0.498 | " | " | " | " | " | |
| Xylenes, total | 35.7 | 0.498 | " | " | " | " | " | |
| Naphthalene | 2.31 | 0.175 | " | 25 | " | " | 05/09/2018 | |
| Surrogate: 1,2-Dichloroethane-d4 | 102 % | 70-130 | | | " | " | " | |
| Surrogate: Toluene-d8 | 108 % | 70-130 | | | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 104 % | 70-130 | | | " | " | 05/10/2018 | |

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|-------|-------------|---|------|-------------|-----|-----------|-------|
| Batch B8E0907 - EPA 5030 (soil) | | | | | | | | | | |
| Blank (B8E0907-BLK1) | | | | | | | | | | |
| | | | | | Prepared: 05/09/2018 Analyzed: 05/09/2018 | | | | | |
| 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 | 0.007 | " | | | | | | | U |
| Surrogate: 1,2-Dichloroethane-d4 | 66 | | ug/kg | 62.5 | | 105 | 70-130 | | | |
| Surrogate: Toluene-d8 | 60 | | " | 62.5 | | 96.2 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 100 | 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 - Wells Ranch AE32 Econode

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B8E0907 - EPA 5030 (soil)

Blank (B8E0907-BLK2)

Prepared: 05/09/2018 Analyzed: 05/10/2018

| | | | | | | | | | | |
|----------------------------------|----|-------|-------|------|--|------|--------|--|--|---|
| 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 | 0.007 | " | | | | | | | U |
| Surrogate: 1,2-Dichloroethane-d4 | 68 | | ug/kg | 62.5 | | 109 | 70-130 | | | |
| Surrogate: Toluene-d8 | 60 | | " | 62.5 | | 95.5 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 100 | 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 - Wells Ranch AE32 Econode

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B8E0907 - EPA 5030 (soil)

LCS (B8E0907-BS1)

Prepared: 05/09/2018 Analyzed: 05/09/2018

| | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|--|------|--------|--|--|--|
| Benzene | 0.109 | 0.002 | mg/kg | 0.100 | | 109 | 70-130 | | | |
| Toluene | 0.108 | 0.002 | " | 0.100 | | 108 | 70-130 | | | |
| Ethylbenzene | 0.110 | 0.002 | " | 0.100 | | 110 | 70-130 | | | |
| m,p-Xylene | 0.206 | 0.004 | " | 0.200 | | 103 | 70-130 | | | |
| o-Xylene | 0.105 | 0.002 | " | 0.100 | | 105 | 70-130 | | | |
| Naphthalene | 0.098 | 0.007 | " | 0.100 | | 97.8 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 64 | | ug/kg | 62.5 | | 102 | 70-130 | | | |
| Surrogate: Toluene-d8 | 60 | | " | 62.5 | | 96.4 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 101 | 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 - Wells Ranch AE32 Econode

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B8E0907 - EPA 5030 (soil)

LCS (B8E0907-BS2)

Prepared: 05/09/2018 Analyzed: 05/10/2018

| | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|--|------|--------|--|--|--|
| Benzene | 0.114 | 0.002 | mg/kg | 0.100 | | 114 | 70-130 | | | |
| Toluene | 0.112 | 0.002 | " | 0.100 | | 112 | 70-130 | | | |
| Ethylbenzene | 0.115 | 0.002 | " | 0.100 | | 115 | 70-130 | | | |
| m,p-Xylene | 0.215 | 0.004 | " | 0.200 | | 108 | 70-130 | | | |
| o-Xylene | 0.110 | 0.002 | " | 0.100 | | 110 | 70-130 | | | |
| Naphthalene | 0.094 | 0.007 | " | 0.100 | | 94.2 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 66 | | ug/kg | 62.5 | | 106 | 70-130 | | | |
| Surrogate: Toluene-d8 | 60 | | " | 62.5 | | 96.2 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 64 | | " | 62.5 | | 102 | 70-130 | | | |

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 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B8E0907 - EPA 5030 (soil)

| Matrix Spike (B8E0907-MS1) | Source: Y805148-04 | | | Prepared: 05/09/2018 Analyzed: 05/09/2018 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|-------|------|--------|--|--|-------|
| Benzene | 0.269 | 0.002 | mg/kg | 0.100 | 0.006 | 263 | 70-130 | | | QM-07 |
| Toluene | 0.113 | 0.002 | " | 0.100 | 0.001 | 112 | 70-130 | | | |
| Ethylbenzene | 0.125 | 0.002 | " | 0.100 | ND | 125 | 70-130 | | | |
| m,p-Xylene | 0.232 | 0.004 | " | 0.200 | 0.002 | 115 | 70-130 | | | |
| o-Xylene | 0.110 | 0.002 | " | 0.100 | ND | 110 | 70-130 | | | |
| Naphthalene | 0.094 | 0.007 | " | 0.100 | ND | 93.8 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 64 | | ug/kg | 62.5 | | 102 | 70-130 | | | |
| Surrogate: Toluene-d8 | 59 | | " | 62.5 | | 94.8 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 65 | | " | 62.5 | | 103 | 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 - Wells Ranch AE32 Econode

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B8E0907 - EPA 5030 (soil)

| Matrix Spike (B8E0907-MS2) | Source: Y805151-01 | | | Prepared: 05/09/2018 Analyzed: 05/09/2018 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|----|------|--------|--|--|--|
| Benzene | 0.111 | 0.002 | mg/kg | 0.100 | ND | 111 | 70-130 | | | |
| Toluene | 0.108 | 0.002 | " | 0.100 | ND | 108 | 70-130 | | | |
| Ethylbenzene | 0.106 | 0.002 | " | 0.100 | ND | 106 | 70-130 | | | |
| m,p-Xylene | 0.196 | 0.004 | " | 0.200 | ND | 98.0 | 70-130 | | | |
| o-Xylene | 0.101 | 0.002 | " | 0.100 | ND | 101 | 70-130 | | | |
| Naphthalene | 0.096 | 0.007 | " | 0.100 | ND | 95.6 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 63 | | ug/kg | 62.5 | | 100 | 70-130 | | | |
| Surrogate: Toluene-d8 | 60 | | " | 62.5 | | 95.7 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 100 | 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 - Wells Ranch AE32 Econode

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B8E0907 - EPA 5030 (soil)

| Matrix Spike Dup (B8E0907-MSD1) | Source: Y805148-04 | | | Prepared: 05/09/2018 Analyzed: 05/09/2018 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|-------|------|--------|-------|----|-------|
| Benzene | 0.243 | 0.002 | mg/kg | 0.100 | 0.006 | 237 | 70-130 | 10.2 | 20 | QM-07 |
| Toluene | 0.114 | 0.002 | " | 0.100 | 0.001 | 113 | 70-130 | 0.968 | 20 | |
| Ethylbenzene | 0.121 | 0.002 | " | 0.100 | ND | 121 | 70-130 | 2.57 | 20 | |
| m,p-Xylene | 0.227 | 0.004 | " | 0.200 | 0.002 | 112 | 70-130 | 2.26 | 20 | |
| o-Xylene | 0.107 | 0.002 | " | 0.100 | ND | 107 | 70-130 | 2.10 | 20 | |
| Naphthalene | 0.093 | 0.007 | " | 0.100 | ND | 93.4 | 70-130 | 0.449 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 63 | | ug/kg | 62.5 | | 100 | 70-130 | | | |
| Surrogate: Toluene-d8 | 60 | | " | 62.5 | | 95.5 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 64 | | " | 62.5 | | 102 | 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 - Wells Ranch AE32 Econode

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B8E0907 - EPA 5030 (soil)

| Matrix Spike Dup (B8E0907-MSD2) | Source: Y805151-01 | | | Prepared: 05/09/2018 Analyzed: 05/09/2018 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|----|------|--------|-------|----|--|
| Benzene | 0.106 | 0.002 | mg/kg | 0.100 | ND | 106 | 70-130 | 4.63 | 20 | |
| Toluene | 0.104 | 0.002 | " | 0.100 | ND | 104 | 70-130 | 3.60 | 20 | |
| Ethylbenzene | 0.107 | 0.002 | " | 0.100 | ND | 107 | 70-130 | 1.13 | 20 | |
| m,p-Xylene | 0.197 | 0.004 | " | 0.200 | ND | 98.5 | 70-130 | 0.540 | 20 | |
| o-Xylene | 0.102 | 0.002 | " | 0.100 | ND | 102 | 70-130 | 0.907 | 20 | |
| Naphthalene | 0.095 | 0.007 | " | 0.100 | ND | 95.1 | 70-130 | 0.503 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 63 | | ug/kg | 62.5 | | 100 | 70-130 | | | |
| Surrogate: Toluene-d8 | 60 | | " | 62.5 | | 95.5 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 65 | | " | 62.5 | | 103 | 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 - Wells Ranch AE32 Econode

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

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

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

Batch B8E0903 - EPA 3550B

Blank (B8E0903-BLK1)

Prepared: 05/09/2018 Analyzed: 05/09/2018

| | | | | | | | | | | |
|------------------|----|------|-------|--|--|--|--|--|--|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | | | | | | | U |
|------------------|----|------|-------|--|--|--|--|--|--|---|

Surrogate: o-Terphenyl

| | | | | | |
|----|---|------|--|------|--------|
| 47 | " | 50.0 | | 95.0 | 59-131 |
|----|---|------|--|------|--------|

Blank (B8E0903-BLK2)

Prepared: 05/09/2018 Analyzed: 05/09/2018

| | | | | | | | | | | |
|------------------|----|------|-------|--|--|--|--|--|--|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | | | | | | | U |
|------------------|----|------|-------|--|--|--|--|--|--|---|

Surrogate: o-Terphenyl

| | | | | | |
|----|---|------|--|------|--------|
| 48 | " | 50.0 | | 96.8 | 59-131 |
|----|---|------|--|------|--------|

LCS (B8E0903-BS1)

Prepared: 05/09/2018 Analyzed: 05/09/2018

| | | | | | | |
|------------------|-----|------|-------|------|------|--------|
| Diesel (C10-C28) | 996 | 50.0 | mg/kg | 1000 | 99.6 | 64-121 |
|------------------|-----|------|-------|------|------|--------|

Surrogate: o-Terphenyl

| | | | | | |
|----|---|------|--|-----|--------|
| 55 | " | 50.0 | | 109 | 59-131 |
|----|---|------|--|-----|--------|

LCS (B8E0903-BS2)

Prepared: 05/09/2018 Analyzed: 05/09/2018

| | | | | | | |
|------------------|-----|------|-------|------|------|--------|
| Diesel (C10-C28) | 975 | 50.0 | mg/kg | 1000 | 97.5 | 64-121 |
|------------------|-----|------|-------|------|------|--------|

Surrogate: o-Terphenyl

| | | | | | |
|----|---|------|--|-----|--------|
| 59 | " | 50.0 | | 117 | 59-131 |
|----|---|------|--|-----|--------|

Matrix Spike (B8E0903-MS1)

Source: Y805128-02

Prepared: 05/09/2018 Analyzed: 05/10/2018

| | | | | | | | |
|------------------|------|------|-------|------|------|-----|--------|
| Diesel (C10-C28) | 1070 | 50.0 | mg/kg | 1000 | 25.5 | 104 | 53-125 |
|------------------|------|------|-------|------|------|-----|--------|

Surrogate: o-Terphenyl

| | | | | | |
|----|---|------|--|-----|--------|
| 57 | " | 50.0 | | 114 | 59-131 |
|----|---|------|--|-----|--------|

Matrix Spike (B8E0903-MS2)

Source: Y805148-04

Prepared: 05/09/2018 Analyzed: 05/09/2018

| | | | | | | | |
|------------------|-----|------|-------|------|----|------|--------|
| Diesel (C10-C28) | 979 | 50.0 | mg/kg | 1000 | ND | 97.9 | 53-125 |
|------------------|-----|------|-------|------|----|------|--------|

Surrogate: o-Terphenyl

| | | | | | |
|----|---|------|--|------|--------|
| 49 | " | 50.0 | | 98.0 | 59-131 |
|----|---|------|--|------|--------|

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|---------------------------|-------|-------------|---|------|-------------|------|-----------|-------|
| Batch B8E0903 - EPA 3550B | | | | | | | | | | |
| Matrix Spike Dup (B8E0903-MSD1) | | Source: Y805128-02 | | | Prepared: 05/09/2018 Analyzed: 05/10/2018 | | | | | |
| Diesel (C10-C28) | 974 | 50.0 | mg/kg | 1000 | 25.5 | 94.8 | 53-125 | 9.41 | 20 | |
| Surrogate: o-Terphenyl | 63 | | " | 50.0 | | 126 | 59-131 | | | |
| Matrix Spike Dup (B8E0903-MSD2) | | Source: Y805148-04 | | | Prepared: 05/09/2018 Analyzed: 05/09/2018 | | | | | |
| Diesel (C10-C28) | 963 | 50.0 | mg/kg | 1000 | ND | 96.3 | 53-125 | 1.70 | 20 | |
| Surrogate: o-Terphenyl | 51 | | " | 50.0 | | 102 | 59-131 | | | |

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 - Wells Ranch AE32 Econode

Notes and Definitions

U Sample is Non-Detect.

S-DUP Duplicate analysis confirmed surrogate failure due to matrix effects.

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.

Jen Pellegrini For Noelle Doyle Mathis, President



January 21, 2019

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

**Project Name - Noble - Wells Ranch AE32
Econode**

Project Number - [none]

Attached are your analytical results for Noble - Wells Ranch AE32 Econode received by Origins Laboratory, Inc. January 18, 2019. This project is associated with Origins project number Y901219-01.

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 - Wells Ranch AE32 Econode

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|--------------|---------------|--------|------------------------|------------------|
| PH-01@10-11' | Y901219-01 | Soil | January 17, 2019 11:51 | 01/18/2019 08:37 |
| PH-01@14-15' | Y901219-02 | Soil | January 17, 2019 11:55 | 01/18/2019 08:37 |
| PH-02@8-9' | Y901219-03 | Soil | January 17, 2019 11:22 | 01/18/2019 08:37 |
| PH-02@14-15' | Y901219-04 | Soil | January 17, 2019 11:28 | 01/18/2019 08:37 |
| PH-03@10-11' | Y901219-05 | Soil | January 17, 2019 12:06 | 01/18/2019 08:37 |
| PH-03@14-15' | Y901219-06 | Soil | January 17, 2019 12:10 | 01/18/2019 08:37 |
| PH-04@10-11' | Y901219-07 | Soil | January 17, 2019 14:52 | 01/18/2019 08:37 |
| PH-04@12-13' | Y901219-08 | Soil | January 17, 2019 14:54 | 01/18/2019 08:37 |
| PH-05@10-11' | Y901219-09 | Soil | January 17, 2019 14:24 | 01/18/2019 08:37 |
| PH-05@12-13' | Y901219-10 | Soil | January 17, 2019 14:26 | 01/18/2019 08:37 |
| PH-06@8-9' | Y901219-11 | Soil | January 17, 2019 13:54 | 01/18/2019 08:37 |
| PH-06@9-10' | Y901219-12 | Soil | January 17, 2019 13:56 | 01/18/2019 08:37 |
| PH-07@12-13' | Y901219-13 | Soil | January 17, 2019 13:24 | 01/18/2019 08:37 |
| PH-07@14-15' | Y901219-14 | Soil | January 17, 2019 13:31 | 01/18/2019 08:37 |

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 - Wells Ranch AE32 Econode

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|--------------|---------------|--------|------------------------|------------------|
| PH-08@12-13' | Y901219-15 | Soil | January 17, 2019 13:00 | 01/18/2019 08:37 |
| PH-08@14-15' | Y901219-16 | Soil | January 17, 2019 13:02 | 01/18/2019 08:37 |

Origins Laboratory, Inc.



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

Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

www.originslaboratory.com

1990219 page 2 of 2

ORIGINS
 LABORATORY, INC

Client: EMBLE ENV. CONSULTING
 Address: 4101 INCA ST
DENVER, CO
 Telephone Number: 303-433-0471
 Email Address: MCE@EMBLE-ENVIR.COM

Project Manager: MARTIN ECKERT III
 Project Name: WELLS RANCH AE32 ECONODE
 Project Number: K7
 Samples Collected By: K7

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

| Sample ID Description | Date Sampled | Time Sampled | # of Containers | Preservative | | | | Matrix | | | Analysis | | | | Sample Instructions | | | |
|-----------------------|--------------|--------------|-----------------|--------------|-----|------------------|-------|-------------|------|------------|----------|------|-----|------|---------------------|-------|--|--|
| | | | | Unpreserved | HCl | HNO ₃ | Other | Groundwater | Soil | Air Summ # | Other | BTEX | DRD | VOCs | | Other | | |
| PH-06@8-01 | 1-17-14 | 1354 | 2 | X | | | | | X | | | | X | X | | | | |
| PH-06@9-10 | | 1356 | 1 | | | | | | | | | | | | | | | |
| PH-07@12-17 | | 1324 | 1 | | | | | | | | | | | | | | | |
| PH-07@14-15 | | 1331 | 1 | | | | | | | | | | | | | | | |
| PH-08@12-17 | | 1300 | 1 | | | | | | | | | | | | | | | |
| PH-08@14-15 | | 1302 | 1 | | | | | | | | | | | | | | | |

Relinquished By: [Signature] Date: 1-18-14 Time: 0837
 Relinquished By: [Signature] Date: 01-18-14 Time: 0837

Received By: [Signature] Date: 01-18-14 Time: 0837
 Received By: [Signature] Date: 01-18-14 Time: 0837

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

Date Results Needed: NOBLE
 Temp Received: ABILTO HOWARD

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.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4901219

Client: Eagle Env

Client Project ID: Noble - wells Ranch

Checklist Completed by: JP

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

Date/time completed: 1/18/19

Airbill #: NA

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

Cooler Number/Temperature: 1 / 1.3 °c _____ / _____ °c _____ / _____ °c _____ / _____ °c

Thermometer ID: TC03

| Requirement Description | Yes | No | N/A | Comments (if any) |
|---|-----|----|-----|-------------------|
| If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ? | X | | | |
| Is there ice present (document if blue ice is used) | X | | | |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact) | | X | | |
| Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact) | | X | | |
| Were all samples received intact ⁽¹⁾ ? | X | | | |
| Was adequate sample volume provided ⁽¹⁾ ? | X | | | |
| Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ? | | X | | |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | X | | | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | X | | | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | X | | | |
| Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ? | X | | | |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative. | | | X | |
| 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) | | | X | |
| Additional Comments (if any): | | | | |

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

Reviewed by [Signature] (Project Manager)

1/21/19
 Date/Time Reviewed

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.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

PH-01@10-11'

1/17/2019 11:51:00AM

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

Origins Laboratory, Inc.
 Y901219-01 (Soil)

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

| | | | | | | | | | |
|--------------------------------|--------|--------|-------|---|---------|-----|------------|------------|--|
| Diesel (C10-C28) | 3900 | 50.0 | mg/kg | 1 | B9A1804 | JTD | 01/18/2019 | 01/18/2019 | |
| Surrogate: <i>o</i> -Terphenyl | 97.8 % | 59-131 | | | " | " | " | " | |

GBTEX + Napthalene by 8260C

| | | | | | | | | | |
|----------------------------------|--------|--------|-------|-----|---------|-----|------------|------------|--|
| Gasoline Range Hydrocarbons | 1460 | 50.0 | mg/kg | 250 | B9A1803 | JTD | 01/18/2019 | 01/18/2019 | |
| Benzene | 4.20 | 0.498 | " | " | " | JTD | " | " | |
| Toluene | 20.2 | 0.498 | " | " | " | JTD | " | " | |
| Ethylbenzene | 9.70 | 0.498 | " | " | " | JTD | " | " | |
| Xylenes, total | 39.9 | 0.498 | " | " | " | JTD | " | " | |
| Naphthalene | 4.04 | 2.00 | " | " | " | JTD | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | 108 % | 70-130 | | | " | " | " | " | |
| Surrogate: Toluene-d8 | 87.7 % | 70-130 | | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 99.6 % | 70-130 | | | " | " | " | " | |

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

PH-01@14-15'
 1/17/2019 11:55:00AM

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

Origins Laboratory, Inc.
 Y901219-02 (Soil)

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

| | | | | | | | | |
|------------------|------|------|-------|---|---------|-----|------------|------------|
| Diesel (C10-C28) | 5140 | 50.0 | mg/kg | 1 | B9A1804 | JTD | 01/18/2019 | 01/18/2019 |
|------------------|------|------|-------|---|---------|-----|------------|------------|

| | | | | | | | | |
|--------------------------------|-------|--------|--|--|---|---|---|---|
| Surrogate: <i>o</i> -Terphenyl | 103 % | 59-131 | | | " | " | " | " |
|--------------------------------|-------|--------|--|--|---|---|---|---|

GBTEX + Napthalene by 8260C

| | | | | | | | | |
|-----------------------------|------|-------|-------|-----|---------|-----|------------|------------|
| Gasoline Range Hydrocarbons | 3650 | 50.0 | mg/kg | 250 | B9A1803 | JTD | 01/18/2019 | 01/18/2019 |
| Benzene | 18.5 | 0.498 | " | " | " | JTD | " | " |
| Toluene | 53.1 | 0.498 | " | " | " | JTD | " | " |
| Ethylbenzene | 26.1 | 0.498 | " | " | " | JTD | " | " |
| Xylenes, total | 95.6 | 0.498 | " | " | " | JTD | " | " |
| Naphthalene | 6.31 | 2.00 | " | " | " | JTD | " | " |

| | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 109 % | 70-130 | | | " | " | " | " |
| Surrogate: Toluene-d8 | 78.1 % | 70-130 | | | " | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 104 % | 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 - Wells Ranch AE32 Econode

PH-02@8-9'

1/17/2019 11:22:00AM

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

Origins Laboratory, Inc.
Y901219-03 (Soil)

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

| | | | | | | | | | |
|--------------------------------|-------|--------|-------|---|---------|-----|------------|------------|--|
| Diesel (C10-C28) | 501 | 50.0 | mg/kg | 1 | B9A1804 | JTD | 01/18/2019 | 01/18/2019 | |
| Surrogate: <i>o</i> -Terphenyl | 101 % | 59-131 | | | " | " | " | " | |

GBTEX + Napthalene by 8260C

| | | | | | | | | | |
|-----------------------------|-------|-------|-------|----|---------|-----|------------|------------|--|
| Gasoline Range Hydrocarbons | 123 | 5.00 | mg/kg | 25 | B9A1803 | JTD | 01/18/2019 | 01/18/2019 | |
| Benzene | 0.293 | 0.050 | " | " | " | JTD | " | " | |
| Toluene | 0.972 | 0.050 | " | " | " | JTD | " | " | |
| Ethylbenzene | 0.828 | 0.050 | " | " | " | JTD | " | " | |
| Xylenes, total | 3.55 | 0.050 | " | " | " | JTD | " | " | |
| Naphthalene | 0.536 | 0.200 | " | " | " | JTD | " | " | |

| | | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 105 % | 70-130 | | | " | " | " | " | |
| Surrogate: Toluene-d8 | 88.1 % | 70-130 | | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 99.4 % | 70-130 | | | " | " | " | " | |

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

PH-02@14-15'

1/17/2019 11:28:00AM

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

Origins Laboratory, Inc.
Y901219-04 (Soil)

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

| | | | | | | | | |
|------------------|------|------|-------|---|---------|-----|------------|------------|
| Diesel (C10-C28) | 2670 | 50.0 | mg/kg | 1 | B9A1804 | JTD | 01/18/2019 | 01/18/2019 |
|------------------|------|------|-------|---|---------|-----|------------|------------|

| | | | | | | | | |
|--------------------------------|--------|--------|--|--|---|---|---|---|
| Surrogate: <i>o</i> -Terphenyl | 96.9 % | 59-131 | | | " | " | " | " |
|--------------------------------|--------|--------|--|--|---|---|---|---|

GBTEX + Napthalene by 8260C

| | | | | | | | | |
|-----------------------------|------|-------|-------|-----|---------|-----|------------|------------|
| Gasoline Range Hydrocarbons | 1790 | 50.0 | mg/kg | 250 | B9A1803 | JTD | 01/18/2019 | 01/18/2019 |
| Benzene | 6.42 | 0.498 | " | " | " | JTD | " | " |
| Toluene | 27.6 | 0.498 | " | " | " | JTD | " | " |
| Ethylbenzene | 12.7 | 0.498 | " | " | " | JTD | " | " |
| Xylenes, total | 48.0 | 0.498 | " | " | " | JTD | " | " |
| Naphthalene | 3.82 | 2.00 | " | " | " | JTD | " | " |

| | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 108 % | 70-130 | | | " | " | " | " |
| Surrogate: Toluene-d8 | 85.3 % | 70-130 | | | " | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 101 % | 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 - Wells Ranch AE32 Econode

PH-03@10-11'

1/17/2019 12:06:00PM

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

Origins Laboratory, Inc.
 Y901219-05 (Soil)

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

| | | | | | | | | | |
|------------------------|-------|--------|-------|---|---------|-----|------------|------------|--|
| Diesel (C10-C28) | 1160 | 50.0 | mg/kg | 1 | B9A1804 | JTD | 01/18/2019 | 01/18/2019 | |
| Surrogate: o-Terphenyl | 113 % | 59-131 | | | " | " | " | " | |

GBTEX + Napthalene by 8260C

| | | | | | | | | | |
|----------------------------------|--------|--------|-------|-----|---------|-----|------------|------------|--|
| Gasoline Range Hydrocarbons | 509 | 50.0 | mg/kg | 250 | B9A1803 | JTD | 01/18/2019 | 01/18/2019 | |
| Benzene | 0.675 | 0.498 | " | " | " | JTD | " | " | |
| Toluene | 5.48 | 0.498 | " | " | " | JTD | " | " | |
| Ethylbenzene | 3.05 | 0.498 | " | " | " | JTD | " | " | |
| Xylenes, total | 12.9 | 0.498 | " | " | " | JTD | " | " | |
| Naphthalene | 1.15 | 0.200 | " | 25 | " | JTD | " | 01/21/2019 | |
| Surrogate: 1,2-Dichloroethane-d4 | 106 % | 70-130 | | | " | " | " | 01/18/2019 | |
| Surrogate: Toluene-d8 | 94.0 % | 70-130 | | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 99.9 % | 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.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

PH-03@14-15'
1/17/2019 12:10:00PM

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

Origins Laboratory, Inc.
Y901219-06 (Soil)

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

| | | | | | | | | | |
|--------------------------------|-------|--------|-------|---|---------|-----|------------|------------|--|
| Diesel (C10-C28) | 1360 | 50.0 | mg/kg | 1 | B9A1804 | JTD | 01/18/2019 | 01/18/2019 | |
| Surrogate: <i>o</i> -Terphenyl | 107 % | 59-131 | | | " | " | " | " | |

GBTEX + Napthalene by 8260C

| | | | | | | | | | |
|----------------------------------|--------|--------|-------|-----|---------|-----|------------|------------|--|
| Gasoline Range Hydrocarbons | 621 | 50.0 | mg/kg | 250 | B9A1803 | JTD | 01/18/2019 | 01/18/2019 | |
| Benzene | 0.890 | 0.498 | " | " | " | JTD | " | " | |
| Toluene | 5.64 | 0.498 | " | " | " | JTD | " | " | |
| Ethylbenzene | 4.08 | 0.498 | " | " | " | JTD | " | " | |
| Xylenes, total | 16.4 | 0.498 | " | " | " | JTD | " | " | |
| Naphthalene | 1.16 | 0.200 | " | 25 | " | JTD | " | 01/21/2019 | |
| Surrogate: 1,2-Dichloroethane-d4 | 110 % | 70-130 | | | " | " | " | 01/18/2019 | |
| Surrogate: Toluene-d8 | 92.2 % | 70-130 | | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 99.4 % | 70-130 | | | " | " | " | " | |

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

PH-04@10-11'
 1/17/2019 2:52:00PM

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

Origins Laboratory, Inc.
 Y901219-07 (Soil)

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

| | | | | | | | | |
|------------------|-----|------|-------|---|---------|-----|------------|------------|
| Diesel (C10-C28) | 439 | 50.0 | mg/kg | 1 | B9A1804 | JTD | 01/18/2019 | 01/18/2019 |
|------------------|-----|------|-------|---|---------|-----|------------|------------|

| | | | | | | | | |
|------------------------|--------|--------|--|--|---|---|---|---|
| Surrogate: o-Terphenyl | 92.3 % | 59-131 | | | " | " | " | " |
|------------------------|--------|--------|--|--|---|---|---|---|

GBTEX + Napthalene by 8260C

| | | | | | | | | |
|-----------------------------|-------|-------|-------|----|---------|-----|------------|------------|
| Gasoline Range Hydrocarbons | 252 | 5.00 | mg/kg | 25 | B9A1803 | JTD | 01/18/2019 | 01/18/2019 |
| Benzene | 0.142 | 0.050 | " | " | " | JTD | " | " |
| Toluene | 0.102 | 0.050 | " | " | " | JTD | " | " |
| Ethylbenzene | 1.25 | 0.050 | " | " | " | JTD | " | " |
| Xylenes, total | 6.05 | 0.050 | " | " | " | JTD | " | " |
| Naphthalene | 1.07 | 0.200 | " | " | " | JTD | " | " |

| | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|---|
| Surrogate: 1,2-Dichloroethane-d4 | 105 % | 70-130 | | | " | " | " | " |
| Surrogate: Toluene-d8 | 78.2 % | 70-130 | | | " | " | " | " |
| Surrogate: 4-Bromofluorobenzene | 105 % | 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 - Wells Ranch AE32 Econode

PH-04@12-13'
1/17/2019 2:54:00PM

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

Origins Laboratory, Inc.
Y901219-08 (Soil)

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

| | | | | | | | | | |
|------------------------|--------|--------|-------|---|---------|-----|------------|------------|--|
| Diesel (C10-C28) | 532 | 50.0 | mg/kg | 1 | B9A1804 | JTD | 01/18/2019 | 01/18/2019 | |
| Surrogate: o-Terphenyl | 91.5 % | 59-131 | | | " | " | " | " | |

GBTEX + Napthalene by 8260C

| | | | | | | | | | |
|-----------------------------|-------|-------|-------|----|---------|-----|------------|------------|--|
| Gasoline Range Hydrocarbons | 231 | 5.00 | mg/kg | 25 | B9A1803 | JTD | 01/18/2019 | 01/18/2019 | |
| Benzene | 0.247 | 0.050 | " | " | " | JTD | " | " | |
| Toluene | 0.960 | 0.050 | " | " | " | JTD | " | " | |
| Ethylbenzene | 0.597 | 0.050 | " | " | " | JTD | " | " | |
| Xylenes, total | 6.64 | 0.050 | " | " | " | JTD | " | " | |
| Naphthalene | 0.836 | 0.200 | " | " | " | JTD | " | " | |

| | | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 103 % | 70-130 | | | " | " | " | " | |
| Surrogate: Toluene-d8 | 80.8 % | 70-130 | | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 103 % | 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 - Wells Ranch AE32 Econode

PH-05@10-11'
 1/17/2019 2:24:00PM

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

Origins Laboratory, Inc.
 Y901219-09 (Soil)

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

| | | | | | | | | | |
|------------------|------|------|-------|---|---------|-----|------------|------------|--|
| Diesel (C10-C28) | 60.5 | 50.0 | mg/kg | 1 | B9A1804 | JTD | 01/18/2019 | 01/18/2019 | |
|------------------|------|------|-------|---|---------|-----|------------|------------|--|

| | | | | | | | | | |
|------------------------|--------|--------|--|--|---|---|---|---|--|
| Surrogate: o-Terphenyl | 87.9 % | 59-131 | | | " | " | " | " | |
|------------------------|--------|--------|--|--|---|---|---|---|--|

GBTEX + Napthalene by 8260C

| | | | | | | | | | |
|-----------------------------|-------|-------|-------|----|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | 39.5 | 5.00 | mg/kg | 25 | B9A1803 | JTD | 01/18/2019 | 01/18/2019 | |
| Benzene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Toluene | ND | 0.050 | " | " | " | JTD | " | " | U |
| Ethylbenzene | 0.054 | 0.050 | " | " | " | JTD | " | " | |
| Xylenes, total | 0.210 | 0.050 | " | " | " | JTD | " | " | |
| Naphthalene | 0.363 | 0.200 | " | " | " | JTD | " | " | |

| | | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 108 % | 70-130 | | | " | " | " | " | |
| Surrogate: Toluene-d8 | 93.8 % | 70-130 | | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 98.7 % | 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 - Wells Ranch AE32 Econode

PH-05@12-13'
 1/17/2019 2:26:00PM

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

Origins Laboratory, Inc.
 Y901219-10 (Soil)

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

| | | | | | | | | | |
|------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B9A1804 | JTD | 01/18/2019 | 01/18/2019 | U |
| Surrogate: o-Terphenyl | 82.9 % | 59-131 | | | " | " | " | " | |

GBTEX + Napthalene by 8260C

| | | | | | | | | | |
|-----------------------------|-------|-------|-------|---|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | 0.290 | 0.200 | mg/kg | 1 | B9A1803 | JTD | 01/18/2019 | 01/18/2019 | |
| Benzene | 0.025 | 0.002 | " | " | " | JTD | " | " | |
| Toluene | ND | 0.002 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 0.002 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 0.002 | " | " | " | JTD | " | " | U |
| Napthalene | ND | 0.008 | " | " | " | JTD | " | " | U |

| | | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 89.5 % | 70-130 | | | " | " | " | " | |
| Surrogate: Toluene-d8 | 104 % | 70-130 | | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 105 % | 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 - Wells Ranch AE32 Econode

PH-06@8-9'

1/17/2019 1:54:00PM

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

Origins Laboratory, Inc.
 Y901219-11 (Soil)

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

| | | | | | | | | | |
|------------------------|-------|--------|-------|---|---------|-----|------------|------------|--|
| Diesel (C10-C28) | 833 | 50.0 | mg/kg | 1 | B9A1804 | JTD | 01/18/2019 | 01/18/2019 | |
| Surrogate: o-Terphenyl | 105 % | 59-131 | | | " | " | " | " | |

GBTEX + Napthalene by 8260C

| | | | | | | | | | |
|-----------------------------|-------|-------|-------|----|---------|-----|------------|------------|--|
| Gasoline Range Hydrocarbons | 415 | 5.00 | mg/kg | 25 | B9A1803 | JTD | 01/18/2019 | 01/20/2019 | |
| Benzene | 0.108 | 0.050 | " | " | " | JTD | " | " | |
| Toluene | 0.278 | 0.050 | " | " | " | JTD | " | " | |
| Ethylbenzene | 0.056 | 0.050 | " | " | " | JTD | " | " | |
| Xylenes, total | 1.52 | 0.050 | " | " | " | JTD | " | " | |
| Naphthalene | 0.442 | 0.200 | " | " | " | JTD | " | " | |

| | | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 83.8 % | 70-130 | | | " | " | " | " | |
| Surrogate: Toluene-d8 | 97.8 % | 70-130 | | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 113 % | 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 - Wells Ranch AE32 Econode

PH-06@9-10'
1/17/2019 1:56:00PM

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

Origins Laboratory, Inc.
Y901219-12 (Soil)

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

| | | | | | | | | | |
|--------------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B9A1804 | JTD | 01/18/2019 | 01/18/2019 | U |
| Surrogate: <i>o</i> -Terphenyl | 77.7 % | 59-131 | | | " | " | " | " | |

GBTEX + Napthalene by 8260C

| | | | | | | | | | |
|-----------------------------|-------------|-------|-------|----|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | 22.0 | 5.00 | mg/kg | 25 | B9A1803 | JTD | 01/18/2019 | 01/21/2019 | |
| 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 |
| Napthalene | ND | 0.200 | " | " | " | JTD | " | " | U |

| | | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 83.0 % | 70-130 | | | " | " | " | " | |
| Surrogate: Toluene-d8 | 99.1 % | 70-130 | | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 94.7 % | 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 - Wells Ranch AE32 Econode

PH-07@12-13'
 1/17/2019 1:24:00PM

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

Origins Laboratory, Inc.
 Y901219-13 (Soil)

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

| | | | | | | | | | |
|------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B9A1804 | JTD | 01/18/2019 | 01/18/2019 | U |
| Surrogate: o-Terphenyl | 84.9 % | 59-131 | | | " | " | " | " | |

GBTEX + Napthalene by 8260C

| | | | | | | | | | |
|-----------------------------|-------|-------|-------|---|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | 0.354 | 0.200 | mg/kg | 1 | B9A1803 | JTD | 01/18/2019 | 01/21/2019 | |
| Benzene | ND | 0.002 | " | " | " | JTD | " | " | U |
| Toluene | ND | 0.002 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 0.002 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 0.002 | " | " | " | JTD | " | " | U |
| Napthalene | ND | 0.008 | " | " | " | JTD | " | " | U |

| | | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 88.0 % | 70-130 | | | " | " | " | " | |
| Surrogate: Toluene-d8 | 97.3 % | 70-130 | | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 95.9 % | 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 - Wells Ranch AE32 Econode

PH-07@14-15'
 1/17/2019 1:31:00PM

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

Origins Laboratory, Inc.
 Y901219-14 (Soil)

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

| | | | | | | | | | |
|------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B9A1804 | JTD | 01/18/2019 | 01/18/2019 | U |
| Surrogate: o-Terphenyl | 81.9 % | 59-131 | | | " | " | " | " | |

GBTEX + Napthalene by 8260C

| | | | | | | | | | |
|-----------------------------|-------|-------|-------|---|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | 0.237 | 0.200 | mg/kg | 1 | B9A1803 | JTD | 01/18/2019 | 01/21/2019 | |
| Benzene | ND | 0.002 | " | " | " | JTD | " | " | U |
| Toluene | ND | 0.002 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 0.002 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 0.002 | " | " | " | JTD | " | " | U |
| Napthalene | ND | 0.008 | " | " | " | JTD | " | " | U |

| | | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 90.5 % | 70-130 | | | " | " | " | " | |
| Surrogate: Toluene-d8 | 97.2 % | 70-130 | | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 95.1 % | 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 - Wells Ranch AE32 Econode

PH-08@12-13'
1/17/2019 1:00:00PM

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

Origins Laboratory, Inc.
Y901219-15 (Soil)

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

| | | | | | | | | | |
|------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B9A1804 | JTD | 01/18/2019 | 01/18/2019 | U |
| Surrogate: o-Terphenyl | 87.5 % | 59-131 | | | " | " | " | " | |

GBTEX + Napthalene by 8260C

| | | | | | | | | | |
|-----------------------------|--------------|-------|-------|---|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | 0.216 | 0.200 | mg/kg | 1 | B9A1803 | JTD | 01/18/2019 | 01/21/2019 | |
| Benzene | ND | 0.002 | " | " | " | JTD | " | " | U |
| Toluene | ND | 0.002 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 0.002 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 0.002 | " | " | " | JTD | " | " | U |
| Napthalene | ND | 0.008 | " | " | " | JTD | " | " | U |

| | | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 90.6 % | 70-130 | | | " | " | " | " | |
| Surrogate: Toluene-d8 | 97.9 % | 70-130 | | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 96.8 % | 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 - Wells Ranch AE32 Econode

PH-08@14-15'
1/17/2019 1:02:00PM

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

Origins Laboratory, Inc.
Y901219-16 (Soil)

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

| | | | | | | | | | |
|------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B9A1804 | JTD | 01/18/2019 | 01/18/2019 | U |
| Surrogate: o-Terphenyl | 81.8 % | 59-131 | | | " | " | " | " | |

GBTEX + Napthalene by 8260C

| | | | | | | | | | |
|-----------------------------|--------------|-------|-------|---|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | 0.212 | 0.200 | mg/kg | 1 | B9A1803 | JTD | 01/18/2019 | 01/21/2019 | |
| Benzene | ND | 0.002 | " | " | " | JTD | " | " | U |
| Toluene | ND | 0.002 | " | " | " | JTD | " | " | U |
| Ethylbenzene | ND | 0.002 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 0.002 | " | " | " | JTD | " | " | U |
| Napthalene | ND | 0.008 | " | " | " | JTD | " | " | U |

| | | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|---|---|--|
| Surrogate: 1,2-Dichloroethane-d4 | 89.5 % | 70-130 | | | " | " | " | " | |
| Surrogate: Toluene-d8 | 98.0 % | 70-130 | | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 96.5 % | 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 - Wells Ranch AE32 Econode

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B9A1803 - EPA 5030 (soil)

Blank (B9A1803-BLK1)

Prepared: 01/18/2019 Analyzed: 01/18/2019

| | | | | | | | | | | |
|----------------------------------|------|-------|-------|-------|--|------|--------|--|--|---|
| 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 | | 113 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 96.0 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 98.3 | 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 - Wells Ranch AE32 Econode

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B9A1803 - EPA 5030 (soil)

Blank (B9A1803-BLK2)

Prepared: 01/18/2019 Analyzed: 01/18/2019

| | | | | | | | | | | |
|----------------------------------|------|-------|-------|-------|--|------|--------|--|--|---|
| 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 | | 95.2 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 99.3 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 97.6 | 70-130 | | | |

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B9A1803 - EPA 5030 (soil)

Blank (B9A1803-BLK3)

Prepared: 01/18/2019 Analyzed: 01/18/2019

| | | | | | | | | | | |
|----------------------------------|------|-------|-------|-------|--|------|--------|--|--|---|
| 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 | | 108 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 97.5 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 99.3 | 70-130 | | | |

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 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B9A1803 - EPA 5030 (soil)

LCS (B9A1803-BS1)

Prepared: 01/18/2019 Analyzed: 01/18/2019

| | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|--|------|--------|--|--|--|
| Benzene | 0.108 | 0.002 | mg/kg | 0.100 | | 108 | 70-130 | | | |
| Toluene | 0.102 | 0.002 | " | 0.100 | | 102 | 70-130 | | | |
| Ethylbenzene | 0.094 | 0.002 | " | 0.100 | | 94.3 | 70-130 | | | |
| m,p-Xylene | 0.197 | 0.004 | " | 0.200 | | 98.4 | 70-130 | | | |
| o-Xylene | 0.097 | 0.002 | " | 0.100 | | 96.7 | 70-130 | | | |
| Naphthalene | 0.112 | 0.008 | " | 0.100 | | 112 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.14 | | " | 0.125 | | 110 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 94.9 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 96.2 | 70-130 | | | |

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B9A1803 - EPA 5030 (soil)

LCS (B9A1803-BS2)

Prepared: 01/18/2019 Analyzed: 01/18/2019

| | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|--|------|--------|--|--|--|
| Benzene | 0.109 | 0.002 | mg/kg | 0.100 | | 109 | 70-130 | | | |
| Toluene | 0.110 | 0.002 | " | 0.100 | | 110 | 70-130 | | | |
| Ethylbenzene | 0.114 | 0.002 | " | 0.100 | | 114 | 70-130 | | | |
| m,p-Xylene | 0.229 | 0.004 | " | 0.200 | | 115 | 70-130 | | | |
| o-Xylene | 0.115 | 0.002 | " | 0.100 | | 115 | 70-130 | | | |
| Naphthalene | 0.096 | 0.008 | " | 0.100 | | 95.8 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.12 | | " | 0.125 | | 93.2 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 99.5 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.13 | | " | 0.125 | | 100 | 70-130 | | | |

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B9A1803 - EPA 5030 (soil)

LCS (B9A1803-BS3)

Prepared: 01/18/2019 Analyzed: 01/18/2019

| | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|--|------|--------|--|--|--|
| Benzene | 0.118 | 0.002 | mg/kg | 0.100 | | 118 | 70-130 | | | |
| Toluene | 0.117 | 0.002 | " | 0.100 | | 117 | 70-130 | | | |
| Ethylbenzene | 0.110 | 0.002 | " | 0.100 | | 110 | 70-130 | | | |
| m,p-Xylene | 0.229 | 0.004 | " | 0.200 | | 115 | 70-130 | | | |
| o-Xylene | 0.112 | 0.002 | " | 0.100 | | 112 | 70-130 | | | |
| Naphthalene | 0.119 | 0.008 | " | 0.100 | | 119 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.13 | | " | 0.125 | | 105 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 95.2 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 96.3 | 70-130 | | | |

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B9A1803 - EPA 5030 (soil)

| Matrix Spike (B9A1803-MS1) | Source: Y901210-01 | | | Prepared: 01/18/2019 Analyzed: 01/18/2019 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|--------|------|--------|--|--|--|
| Benzene | 0.107 | 0.002 | mg/kg | 0.100 | 0.0009 | 106 | 70-130 | | | |
| Toluene | 0.103 | 0.002 | " | 0.100 | ND | 103 | 70-130 | | | |
| Ethylbenzene | 0.098 | 0.002 | " | 0.100 | ND | 98.1 | 70-130 | | | |
| m,p-Xylene | 0.203 | 0.004 | " | 0.200 | ND | 101 | 70-130 | | | |
| o-Xylene | 0.100 | 0.002 | " | 0.100 | 0.0004 | 99.4 | 70-130 | | | |
| Naphthalene | 0.105 | 0.008 | " | 0.100 | 0.009 | 96.4 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.13 | | " | 0.125 | | 107 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 96.2 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 98.3 | 70-130 | | | |

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B9A1803 - EPA 5030 (soil)

| Matrix Spike (B9A1803-MS2) | Source: Y901223-01 | | | Prepared: 01/18/2019 Analyzed: 01/18/2019 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|--------|------|--------|--|--|--|
| Benzene | 0.092 | 0.002 | mg/kg | 0.100 | ND | 92.5 | 70-130 | | | |
| Toluene | 0.092 | 0.002 | " | 0.100 | ND | 91.6 | 70-130 | | | |
| Ethylbenzene | 0.096 | 0.002 | " | 0.100 | ND | 95.7 | 70-130 | | | |
| m,p-Xylene | 0.195 | 0.004 | " | 0.200 | 0.0009 | 97.4 | 70-130 | | | |
| o-Xylene | 0.099 | 0.002 | " | 0.100 | 0.0004 | 98.5 | 70-130 | | | |
| Naphthalene | 0.096 | 0.008 | " | 0.100 | 0.009 | 86.7 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.12 | | " | 0.125 | | 99.1 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 98.2 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.13 | | " | 0.125 | | 104 | 70-130 | | | |

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B9A1803 - EPA 5030 (soil)

| Matrix Spike (B9A1803-MS3) | Source: Y901220-04 | | | Prepared: 01/18/2019 Analyzed: 01/18/2019 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|----|------|--------|--|--|--|
| Benzene | 0.112 | 0.002 | mg/kg | 0.100 | ND | 112 | 70-130 | | | |
| Toluene | 0.110 | 0.002 | " | 0.100 | ND | 110 | 70-130 | | | |
| Ethylbenzene | 0.104 | 0.002 | " | 0.100 | ND | 104 | 70-130 | | | |
| m,p-Xylene | 0.215 | 0.004 | " | 0.200 | ND | 108 | 70-130 | | | |
| o-Xylene | 0.106 | 0.002 | " | 0.100 | ND | 106 | 70-130 | | | |
| Naphthalene | 0.104 | 0.008 | " | 0.100 | ND | 104 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.13 | | " | 0.125 | | 105 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 96.4 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.12 | | " | 0.125 | | 97.7 | 70-130 | | | |

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B9A1803 - EPA 5030 (soil)

| Matrix Spike Dup (B9A1803-MSD1) | Source: Y901210-01 | | | Prepared: 01/18/2019 Analyzed: 01/18/2019 | | | | | | |
|--|---------------------------|-------|-------|--|--------|------|--------|-------|----|--|
| Benzene | 0.116 | 0.002 | mg/kg | 0.100 | 0.0009 | 115 | 70-130 | 8.23 | 20 | |
| Toluene | 0.116 | 0.002 | " | 0.100 | ND | 116 | 70-130 | 11.6 | 20 | |
| Ethylbenzene | 0.115 | 0.002 | " | 0.100 | ND | 115 | 70-130 | 15.9 | 20 | |
| m,p-Xylene | 0.236 | 0.004 | " | 0.200 | ND | 118 | 70-130 | 15.2 | 20 | |
| o-Xylene | 0.114 | 0.002 | " | 0.100 | 0.0004 | 114 | 70-130 | 13.6 | 20 | |
| Naphthalene | 0.104 | 0.008 | " | 0.100 | 0.009 | 95.5 | 70-130 | 0.860 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.12 | | " | 0.125 | | 98.8 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 98.1 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.13 | | " | 0.125 | | 101 | 70-130 | | | |

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 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B9A1803 - EPA 5030 (soil)

| Matrix Spike Dup (B9A1803-MSD2) | Source: Y901223-01 | | | Prepared: 01/18/2019 Analyzed: 01/18/2019 | | | | | | |
|--|---------------------------|-------|-------|--|--------|------|--------|------|----|--|
| Benzene | 0.106 | 0.002 | mg/kg | 0.100 | ND | 106 | 70-130 | 13.3 | 20 | |
| Toluene | 0.104 | 0.002 | " | 0.100 | ND | 104 | 70-130 | 12.5 | 20 | |
| Ethylbenzene | 0.107 | 0.002 | " | 0.100 | ND | 107 | 70-130 | 11.2 | 20 | |
| m,p-Xylene | 0.217 | 0.004 | " | 0.200 | 0.0009 | 109 | 70-130 | 10.9 | 20 | |
| o-Xylene | 0.110 | 0.002 | " | 0.100 | 0.0004 | 110 | 70-130 | 10.6 | 20 | |
| Naphthalene | 0.108 | 0.008 | " | 0.100 | 0.009 | 98.9 | 70-130 | 12.0 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.12 | | " | 0.125 | | 96.6 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.12 | | " | 0.125 | | 97.2 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.13 | | " | 0.125 | | 102 | 70-130 | | | |

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B9A1803 - EPA 5030 (soil)

| Matrix Spike Dup (B9A1803-MSD3) | Source: Y901220-04 | | | Prepared: 01/18/2019 Analyzed: 01/18/2019 | | | | | | |
|--|---------------------------|-------|-------|--|----|------|--------|------|----|-------|
| Benzene | 0.109 | 0.002 | mg/kg | 0.100 | ND | 109 | 70-130 | 2.05 | 20 | |
| Toluene | 0.114 | 0.002 | " | 0.100 | ND | 114 | 70-130 | 3.42 | 20 | |
| Ethylbenzene | 0.118 | 0.002 | " | 0.100 | ND | 118 | 70-130 | 12.6 | 20 | |
| m,p-Xylene | 0.244 | 0.004 | " | 0.200 | ND | 122 | 70-130 | 12.7 | 20 | |
| o-Xylene | 0.116 | 0.002 | " | 0.100 | ND | 116 | 70-130 | 9.47 | 20 | |
| Naphthalene | 0.080 | 0.008 | " | 0.100 | ND | 80.4 | 70-130 | 25.6 | 20 | QR-02 |
| Surrogate: 1,2-Dichloroethane-d4 | 0.11 | | " | 0.125 | | 87.3 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.13 | | " | 0.125 | | 101 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 0.13 | | " | 0.125 | | 103 | 70-130 | | | |

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

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

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

Batch B9A1804 - EPA 3550B

| | | | | | | | | | | |
|-----------------------------|-----|------|-------|------|---|------|--------|--|--|---|
| Blank (B9A1804-BLK1) | | | | | Prepared: 01/18/2019 Analyzed: 01/18/2019 | | | | | |
| Diesel (C10-C28) | ND | 50.0 | mg/kg | | | | | | | U |
| Surrogate: o-Terphenyl | 38 | | " | 50.0 | | 75.3 | 59-131 | | | |
| Blank (B9A1804-BLK2) | | | | | Prepared: 01/18/2019 Analyzed: 01/18/2019 | | | | | |
| Diesel (C10-C28) | ND | 50.0 | mg/kg | | | | | | | U |
| Surrogate: o-Terphenyl | 42 | | " | 50.0 | | 84.7 | 59-131 | | | |
| Blank (B9A1804-BLK3) | | | | | Prepared: 01/18/2019 Analyzed: 01/18/2019 | | | | | |
| Diesel (C10-C28) | ND | 50.0 | mg/kg | | | | | | | U |
| Surrogate: o-Terphenyl | 40 | | " | 50.0 | | 79.4 | 59-131 | | | |
| LCS (B9A1804-BS1) | | | | | Prepared: 01/18/2019 Analyzed: 01/18/2019 | | | | | |
| Diesel (C10-C28) | 983 | 50.0 | mg/kg | 1000 | | 98.3 | 64-121 | | | |
| Surrogate: o-Terphenyl | 50 | | " | 50.0 | | 99.6 | 59-131 | | | |
| LCS (B9A1804-BS2) | | | | | Prepared: 01/18/2019 Analyzed: 01/18/2019 | | | | | |
| Diesel (C10-C28) | 877 | 50.0 | mg/kg | 1000 | | 87.7 | 64-121 | | | |
| Surrogate: o-Terphenyl | 44 | | " | 50.0 | | 88.3 | 59-131 | | | |
| LCS (B9A1804-BS3) | | | | | Prepared: 01/18/2019 Analyzed: 01/18/2019 | | | | | |
| Diesel (C10-C28) | 914 | 50.0 | mg/kg | 1000 | | 91.4 | 64-121 | | | |
| Surrogate: o-Terphenyl | 45 | | " | 50.0 | | 90.4 | 59-131 | | | |

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 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|--|--------|-----------------|---------------------------|-------------|---|------|-------------|------|-----------|-------|
| Batch B9A1804 - EPA 3550B | | | | | | | | | | |
| Matrix Spike (B9A1804-MS1) | | | Source: Y901213-01 | | Prepared: 01/18/2019 Analyzed: 01/18/2019 | | | | | |
| Diesel (C10-C28) | 1050 | 50.0 | mg/kg | 1000 | 172 | 87.9 | 53-125 | | | |
| Surrogate: o-Terphenyl | 45 | | " | 50.0 | | 90.8 | 59-131 | | | |
| Matrix Spike (B9A1804-MS2) | | | Source: Y901223-01 | | Prepared: 01/18/2019 Analyzed: 01/18/2019 | | | | | |
| Diesel (C10-C28) | 1030 | 50.0 | mg/kg | 1000 | ND | 103 | 53-125 | | | |
| Surrogate: o-Terphenyl | 47 | | " | 50.0 | | 94.9 | 59-131 | | | |
| Matrix Spike (B9A1804-MS3) | | | Source: Y901220-04 | | Prepared: 01/18/2019 Analyzed: 01/18/2019 | | | | | |
| Diesel (C10-C28) | 1060 | 50.0 | mg/kg | 1000 | ND | 106 | 53-125 | | | |
| Surrogate: o-Terphenyl | 47 | | " | 50.0 | | 94.0 | 59-131 | | | |
| Matrix Spike Dup (B9A1804-MSD1) | | | Source: Y901213-01 | | Prepared: 01/18/2019 Analyzed: 01/18/2019 | | | | | |
| Diesel (C10-C28) | 1080 | 50.0 | mg/kg | 1000 | 172 | 91.0 | 53-125 | 2.85 | 20 | |
| Surrogate: o-Terphenyl | 46 | | " | 50.0 | | 92.5 | 59-131 | | | |
| Matrix Spike Dup (B9A1804-MSD2) | | | Source: Y901223-01 | | Prepared: 01/18/2019 Analyzed: 01/18/2019 | | | | | |
| Diesel (C10-C28) | 954 | 50.0 | mg/kg | 1000 | ND | 95.4 | 53-125 | 7.93 | 20 | |
| Surrogate: o-Terphenyl | 45 | | " | 50.0 | | 89.3 | 59-131 | | | |
| Matrix Spike Dup (B9A1804-MSD3) | | | Source: Y901220-04 | | Prepared: 01/18/2019 Analyzed: 01/18/2019 | | | | | |
| Diesel (C10-C28) | 936 | 50.0 | mg/kg | 1000 | ND | 93.6 | 53-125 | 12.5 | 20 | |
| Surrogate: o-Terphenyl | 42 | | " | 50.0 | | 83.2 | 59-131 | | | |

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4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AE32 Econode

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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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