



October 15, 2018

Mr. Paul Herring
Top Operating Co.
3609 Wadsworth Blvd. Ste 340
Lakewood, CO 80235

**Monitoring Well Replacement and Groundwater Monitoring Report
Rider #1
Historical Release
40.178822 / -105.058512
NE¼ SE¼ SEC.36 T3N R69W 6PM
Boulder County, Colorado
Remediation # 11300**

Dear Mr. Herring,

Eagle Environmental Consulting, Inc. (EAGLE) is pleased to present this Monitoring Well Replacement and Groundwater Monitoring Report for the Rider #1 location (site). A topographic site location map is presented in Figure 1.

1.0 SITE BACKGROUND

On December 21, 2017, the City of Longmont (Longmont) submitted to the Colorado Oil and Gas Conservation Commission (COGCC) a report entitled *Limited Soil, Groundwater, and Soil Gas Investigation* for the Rider #1 Oil and Gas Well Site (Rider #1) located in Longmont, Colorado. Based on analytical results reported by Longmont, soil and groundwater samples collected by Terracon Consultants, Inc. (Terracon) on September 15, 2017 and October 18, 2017, exceeded COGCC Table 910-1 regulatory limits. These results were reported by Longmont to the COGCC on December 21, 2017 and were first reported to Top Operating Company (TOP) upon issuance of Notice of Alleged Violation (NOAV) on March 5, 2018.

In April 2018, EAGLE was retained by TOP to perform assessment activities at the site in response to Longmont's report (COGCC Document No. 2496197) (Report) and the COGCC NOAV (COGCC Document No. 401562368). Terracon's report indicated 11 soil borings were installed at the site in September and October, 2017. Based on analytical results of soil samples collected by Terracon, TPH concentrations in soil borings SB-06, SB-07, and SB-11 exceeded COGCC Table 910-1 regulatory limits. Based on these results, and at the request of TOP, EAGLE advanced 13 soil borings adjacent to the previous locations of SB-06, SB-07, and SB-11 in May 2018. EAGLE submitted two soil samples from each boring at different depths (surficial and subsurface) for laboratory analysis. Based on laboratory analytical results, soil samples SB-03@7.5-10', SB-07@7.5-10', and SB-11@7.5-10' contained concentrations of total petroleum hydrocarbons (TPH) exceeding the COGCC Table 910-1 regulatory limit of 500 milligrams per kilogram (mg/kg). Soil analytical results from EAGLE's soil boring assessment are presented in Table 1.

From August 13, 2018 through August 28, 2018, EAGLE supervised excavation activities to remove adsorbed petroleum hydrocarbon impacts beneath and adjacent to the petroleum hydrocarbon impacts

identified in soil borings SB-03, SB-07, and SB-11. On August 13, 2018, groundwater was observed within the excavation at approximately 9-9.5 feet bgs. EAGLE collected grab groundwater samples (EXC-GW-01 and EXC-GW-02) on August 13, 2018, placed the samples in an iced cooler, and delivered to Origins, under standard COC protocol, for analysis of BTEX following modified EPA Method 8260c. The groundwater samples were received within the required holding time for the laboratory analysis. On August 16, 2018, EAGLE collected grab groundwater sample EXC-GW-03 for laboratory analysis.

To aid in the remediation of impacted groundwater, EC Trucking, coordinated through Wright Choice, was utilized to remove groundwater from the excavation. From August 20, 2018 through August 28, 2018, approximately 1,700 barrels (bbls) of groundwater were removed from the excavation by EC Trucking and transported to NGL C9 for disposal. Additional grab groundwater samples EXC-GW-04 and EXC-GW-05 were collected to monitor dissolved BTEX concentrations in the excavation.

During excavation activities, previously installed monitoring wells MW-01R, MW-03R, and MW-04R were destroyed. The following narrative details monitoring well replacement and groundwater monitoring activities completed at the site following excavation activities.

1.1 Site Hydrogeology

The soil lithology observed beneath the site consists of stiff, silty clay from the ground surface to approximately 13 feet below ground surface (bgs), underlain by medium dense, gravelly clay from approximately 13 feet bgs to 15 feet bgs. Groundwater was observed at a depth of approximately 9-9.5 feet bgs during initial assessment and excavation activities. Groundwater was observed at approximately 9 feet bgs during groundwater sampling activities. A detailed description of the subsurface lithology is presented in the soil boring log included in Attachment A.

2.0 SOIL BORING ADVANCEMENT/MONITORING WELL INSTALLATION ACTIVITIES

Per the current approved Site Investigation and Remediation Workplan (Form 27, document # 401748617), EAGLE proposed the installation of replacement monitoring well MW-01R to continue monitoring groundwater concentrations at the site. Following Form 27 approval, EAGLE scheduled soil boring advancement and monitoring well installation activities.

2.1 Field Work Preparation and Planning

The Utility Notification Center of Colorado (UNCC) was called at least 48 hours in advance of drilling activities to confirm that no unmarked utilities or other obstacles were present within the proposed drilling locations. Tier II facility owners were also contacted to confirm the necessary buried utility notifications were completed.

2.2 Soil Boring Advancement/Monitoring Well Completion Activities

On October 2, 2018, one (1) soil boring (MW-01R2) was advanced adjacent to the previous monitoring well MW-01R location. Following advancement activities, the soil boring was completed as a 2-inch, groundwater monitoring well to continue monitoring groundwater concentrations at the site per the approved Form 27. Soil boring advancement/monitoring well installation activities were completed by EAGLE using a 7822DT Series Geoprobe track rig.

The location was logged in the field according to soil description, soil classification, moisture content, staining, and volatile organic compound (VOC) field screenings. The monitoring well, MW-01R2, was

completed with 2-inch, schedule 40, poly vinyl chloride (PVC) pipe each to a total depth of approximately 15 feet bgs. Ten feet of 0.010 slot, 2-inch, PVC screen was placed at the bottom of the boring followed by 5-feet of PVC riser. The well annulus of each monitoring well was backfilled with 10/20 silica sand to approximately 4 feet bgs, followed by a hydrated bentonite seal to the surface. Monitoring well MW-01R2 was completed as an approximately 2.5-foot PVC stickup with a steel casing. Following installation activities, the monitoring well was developed through purging the location a minimum of six well volumes using a disposable PVC bailer.

EAGLE recorded the spatial location of replacement monitoring well MW-01R2 using a Trimble GeoXT 6000 series instrument. The soil boring log/monitoring well completion diagram is included in Attachment A. The replacement monitoring well location is presented in Figure 2.

2.3 Soil Sampling Procedures

During soil boring advancement/monitoring well installation activities, soil samples were collected continuously within 5-foot, plastic sample liners. The samples within the plastic liners were separated in 2.5-foot intervals for soil identification and analysis. A portion from each 2.5-foot interval was placed in a sealable plastic bag for 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 PID readings, one soil sample with the highest organic vapor measurement (OVM) from the boring (MW-01R2@7.5-10') was submitted to Origins, following standard chain of custody procedures, for laboratory analysis. Each soil sample was 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 EPA Methods 8260c and 8015. The laboratory received the soil samples within the required holding time for each laboratory analysis.

2.4 Groundwater Sampling Procedures

EAGLE returned to the site on October 3, 2018 sample monitoring well MW-01R2. Prior to groundwater sample collection, depth to groundwater data was collected using a decontaminated interface probe capable of measuring the depth to groundwater or light non-aqueous phase liquid (LNAPL) to an accuracy of 0.01 feet. Groundwater was observed at approximately 9 feet. Groundwater samples were collected from the monitoring well in 40 milliliter (mL) amber vials and submitted for laboratory analysis of BTEX following EPA Method 8260C. The samples were transported in an iced cooler under standard chain-of-custody procedures to Origins and were received within the required holding time.

2.5 Laboratory Analytical Results

2.5.1 Soil Analytical Results

Based on laboratory analytical results, the soil sample collected from monitoring wells MW-01R2 on October 2, 2018, 2018 did not contain concentrations of BTEX, naphthalene, or total petroleum hydrocarbons (TPH) exceeding applicable COGCC Table 910-1 regulatory limits. Monitoring well soil analytical results are summarized in Table 1 and included in Figure 2. The soil sample laboratory analytical report is included in Attachment B.

2.5.2 Groundwater Analytical Results

Based on laboratory analytical results, the groundwater sample collected from monitoring well MW-01R2 on October 3, 2018 did not contain concentrations of BTEX exceeding applicable COGCC Table 910-1 regulatory limits.

Groundwater analytical results are summarized in Table 2 and presented in Figure 3. The groundwater laboratory analytical report is included in Attachment B.

3.0 CONCLUSIONS

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

- On October 2, 2018, EAGLE advanced one (1) soil boring (replacement monitoring well MW-01R2) onsite.
- The soil sample collected from monitoring well MW-01R2 on October 2, 2018 did not contain concentrations of BTEX, naphthalene, or TPH exceeding applicable COGCC Table 910-1 regulatory limits.
- The groundwater sample collected from monitoring well MW-01R2 on October 3, 2018 did not contain concentrations of BTEX exceeding applicable COGCC Table 910-1 regulatory limits.

4.0 RECOMMENDATIONS

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

- Continue quarterly groundwater sampling activities on monitoring well MW-01R2.

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



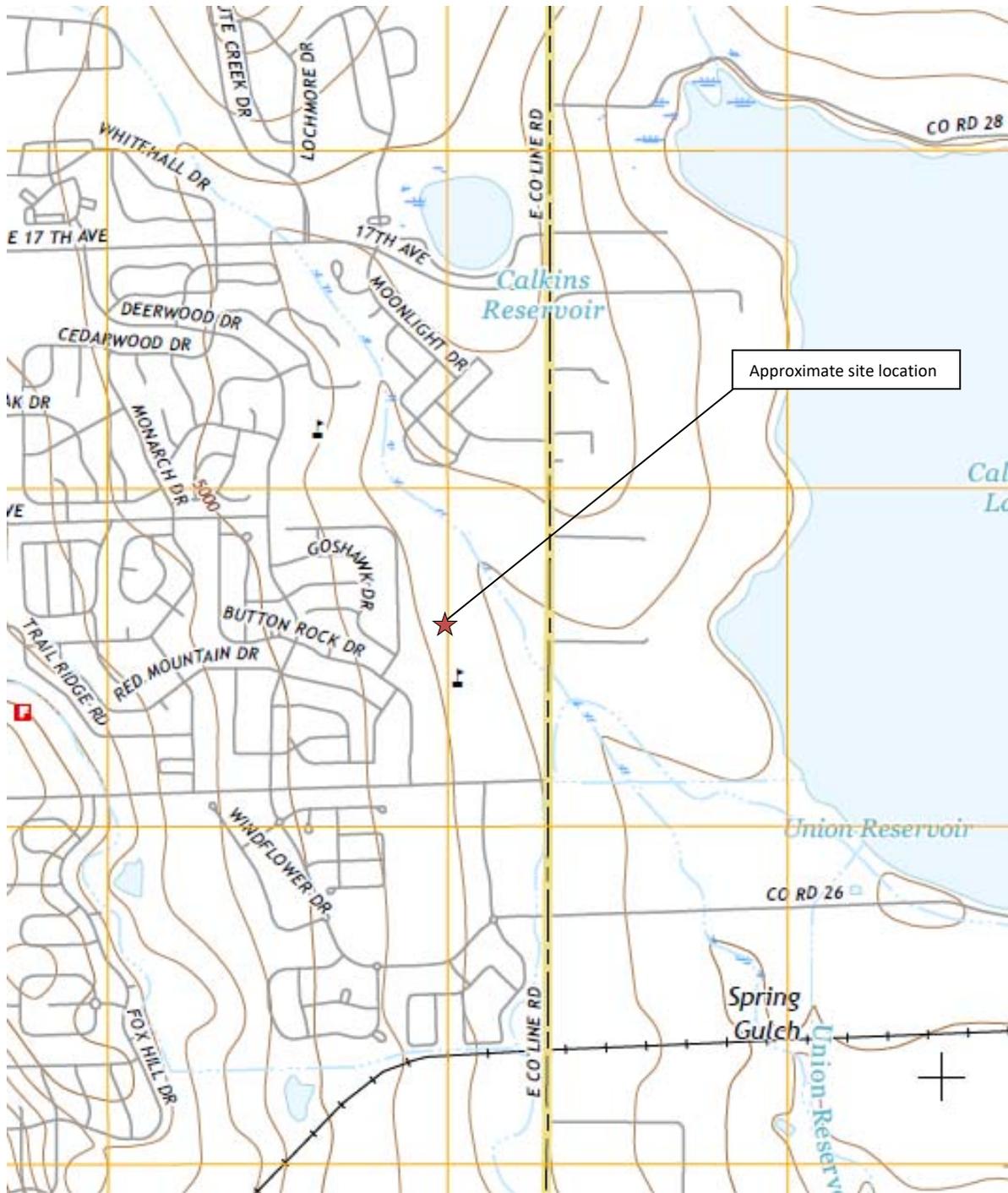
Daniel Coloccia
Project Scientist

FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Monitoring Well Soil Analytical Map

Figure 3: Groundwater Analytical Map



Topographic Site Location Map

Rider #1
 Historical Release
 40.178822 / -104.058512
 NE¼ SE¼ SEC.36 T3N R69W 6PM
 Boulder County, Colorado
 Remediation #11300



Source: USGS 7.5 Minute Topographic Map, Longmont, CO Quadrangle 2016

Figure 1



EAGLE
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MW-01R2@7.5-10'
 10/02/18
 7.5-10'
 B = <0.002
 T = <0.002
 E = <0.002
 X = <0.002
 N = <0.008
 G = 0.352
 D = <50.0

MW-01R2

LEGEND

- APPROXIMATE EXCAVATION BOUNDARIES
- ⊕ APPROXIMATE REPLACEMENT MONITORING WELL LOCATION

PARAMETERS

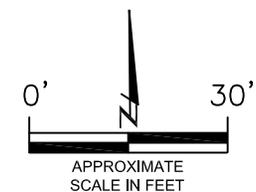
| SOIL SAMPLE LOCATION |
|---------------------------|
| DATE |
| DEPTH (FEET) |
| B = BENZENE (mg/kg) |
| T = TOLUENE (mg/kg) |
| E = ETHYLBENZENE (mg/kg) |
| X = TOTAL XYLENES (mg/kg) |
| N = NAPHTHALENE (mg/kg) |
| G = TPH-GRO (mg/kg) |
| D = TPH-DRO (mg/kg) |

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



MONITORING WELL SOIL ANALYTICAL MAP
 RIDER #1
 HISTORICAL RELEASE
 40.178822 / -105.058512
 NE1/4 SE1/4 SEC.36 T3N R69W 6PM
 BOULDER COUNTY, COLORADO
 REMEDIATION # 11300

DATE:
 10/10/18

DRAWN BY:
 or

FIG.
 NO. 2



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



MW-01R2
 10/03/18
 B = <1.00
 T = <1.00
 E = <1.00
 X = <1.00

MW-01R2

LEGEND

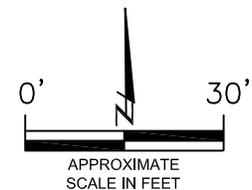
- APPROXIMATE EXCAVATION BOUNDARIES
- ⊗ APPROXIMATE REPLACEMENT MONITORING WELL LOCATION

PARAMETERS

SAMPLE LOCATION
 DATE
 B = BENZENE (µg/L)
 T = TOLUENE (µg/L)
 E = ETHYLBENZENE (µg/L)
 X = TOTAL XYLENES (µg/L)

µg/L = MICROGRAMS PER LITER

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



GROUNDWATER ANALYTICAL MAP
 RIDER #1
 HISTORICAL RELEASE
 40.178822 / -105.058512
 NE1/4 SE1/4 SEC.36 T3N R69W 6PM
 BOULDER COUNTY, COLORADO
 REMEDIATION # 11300

DATE:
 10/10/18
 DRAWN BY:
 or
 FIG.
 NO. 4



EAGLE
 ENVIRONMENTAL
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TABLES

Table 1: Soil Analytical Results Summary

Table 2: Groundwater Analytical Results Summary

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
RIDER #1
HISTORICAL RELEASE
40.178822 / -105.058512
NE¼ SE¼ SEC.36 T3N R69W 6PM
BOULDER COUNTY, COLORADO
REMEDIATION #11300

| 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) | TPH-RRO (mg/kg) | Specific Conductance (mmhos/cm) | pH (pH units) | SAR |
|--|----------|--------------------------------|--------------------|--------------------|-------------------------|-----------------------------|------------------------|--------------------|--------------------|--------------------|---------------------------------------|------------------|---------------|
| COGCC - Regulatory Limits (Table 910-1) (mg/kg) | | | 0.17 | 85 | 100 | 175 | 23 | 500 | | | <4 | 6 to 9 | <12 |
| SB-01 @ 0-2.5' (40.178806/-105.058722) | 05/17/18 | 0-2.5 | NA | NA | NA | NA | NA | NA | NA | NA | 0.135 | 8.32 | 0.62 |
| SB-01 @ 10-12.5' (40.178806/-105.058722) | 05/17/18 | 10-12.5 | <0.050 | <0.050 | <0.050 | 0.658 | <0.175 | 101 | 24.4 | 5.32 | NA | NA | NA |
| SB-02 @ 0-2.5' (40.178782/-105.058673) | 05/17/18 | 0-2.5 | NA | NA | NA | NA | NA | NA | NA | NA | 0.239 | 7.97 | 1.40 |
| SB-02 @ 7.5-10' (40.178782/-105.058673) | 05/17/18 | 7.5-10 | <0.002 | <0.002 | <0.002 | <0.002 | <0.007 | <0.200 | <13.0 | <4.59 | NA | NA | NA |
| SB-03 @ 0-2.5' (40.178756/-105.058741) | 05/17/18 | 0-2.5 | NA | NA | NA | NA | NA | NA | NA | NA | 0.196 | 7.65 | 0.49 |
| SB-03 @ 7.5-10' (40.178756/-105.058741) | 05/17/18 | 7.5-10 | <0.050 | <0.050 | <0.050 | 4.63 | 0.448 | 425 | 95.0 | <4.59 | NA | NA | NA |
| SB-04 @ 0-2.5' (40.178778/-105.058722) | 05/17/18 | 0-2.5 | NA | NA | NA | NA | NA | NA | NA | NA | 0.187 | 7.99 | 0.46 |
| SB-04 @ 7.5-10' (40.178778/-105.058722) | 05/17/18 | 7.5-10 | <0.050 | <0.050 | 0.194 | 0.772 | <0.175 | 101 | 18.8 | <4.59 | NA | NA | NA |
| SB-05 @ 7.5-10' (40.178827/-105.058516) | 05/17/18 | 7.5-10 | <0.002 | <0.002 | 0.007 | 0.057 | <0.007 | 12.5 | 59.0 | <4.59 | NA | NA | NA |
| SB-06 @ 0-2.5' (40.178845/-105.058516) | 05/17/18 | 0-2.5 | NA | NA | NA | NA | NA | NA | NA | NA | 0.178 | 8.21 | 4.07 |
| SB-06 @ 7.5-10' (40.178845/-105.058516) | 05/17/18 | 7.5-10 | <0.002 | 0.002 | 0.661 | 7.90 | 0.184 | 295 | 70.9 | <4.59 | NA | NA | NA |
| SB-07 @ 0-2.5' (40.178826/-105.058485) | 05/17/18 | 0-2.5 | NA | NA | NA | NA | NA | NA | NA | NA | 0.113 | 8.73 | 2.62 |
| SB-07 @ 7.5-10' (40.178826/-105.058485) | 05/17/18 | 7.5-10 | <0.050 | <0.050 | 1.97 | 30.1 | 0.650 | 877 | 156 | <4.59 | NA | NA | NA |
| SB-08 @ 0-2.5' (40.178805/-105.058517) | 05/17/18 | 0-2.5 | NA | NA | NA | NA | NA | NA | NA | NA | 0.113 | 8.74 | 3.80 |
| SB-08 @ 7.5-10' (40.178805/-105.058517) | 05/17/18 | 7.5-10 | <0.050 | <0.050 | 0.098 | 1.46 | 0.212 | 196 | 37.8 | <4.59 | NA | NA | NA |
| SB-09 @ 0-2.5' (40.178821/-105.058550) | 05/17/18 | 0-2.5 | NA | NA | NA | NA | NA | NA | NA | NA | 0.144 | 8.65 | 1.35 |
| SB-09 @ 7.5-10' (40.178821/-105.058550) | 05/17/18 | 7.5-10 | <0.002 | <0.002 | 0.027 | 0.174 | 0.017 | 10.9 | 16.2 | <4.59 | NA | NA | NA |
| SB-10 @ 0-2.5' (40.178853/-105.058453) | 05/17/18 | 0-2.5 | NA | NA | NA | NA | NA | NA | NA | NA | 0.181 | 8.42 | 2.59 |



TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
RIDER #1
HISTORICAL RELEASE
40.178822 / -105.058512
NE¼ SE¼ SEC.36 T3N R69W 6PM
BOULDER COUNTY, COLORADO
REMEDIATION #11300

| 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) | TPH-RRO (mg/kg) | Specific Conductance (mmhos/cm) | pH (pH units) | SAR |
|--|----------|--------------------------------|--------------------|--------------------|-------------------------|-----------------------------|------------------------|--------------------|--------------------|--------------------|---------------------------------------|------------------|---------------|
| COGCC - Regulatory Limits (Table 910-1) (mg/kg) | | | 0.17 | 85 | 100 | 175 | 23 | 500 | | | <4 | 6 to 9 | <12 |
| SB-10 @ 10-12.5' (40.178853/-105.058453) | 05/17/18 | 10-12.5 | <0.050 | <0.050 | 0.787 | 29.2 | 0.331 | 286 | 61.5 | <4.59 | NA | NA | NA |
| SB-11 @ 0-2.5' (40.178672/-105.058327) | 05/17/18 | 0-2.5 | NA | NA | NA | NA | NA | NA | NA | NA | 0.285 | 8.20 | 2.23 |
| SB-11 @ 7.5-10' (40.178672/-105.058327) | 05/17/18 | 7.5-10 | <0.050 | <0.050 | <0.050 | 4.57 | 0.290 | 847 | 68.5 | <4.59 | NA | NA | NA |
| SB-12 @ 0-2.5' (40.178674/-105.058974) | 05/17/18 | 0-2.5 | NA | NA | NA | NA | NA | NA | NA | NA | 0.113 | 8.65 | 0.24 |
| SB-12 @ 10-12.5' (40.178674/-105.058974) | 05/17/18 | 10-12.5 | <0.002 | <0.002 | <0.002 | <0.002 | <0.007 | 10.6 | 47.5 | <4.59 | NA | NA | NA |
| SB-13 @ 0-2.5' (40.179119/-105.058492) | 05/17/18 | 0-2.5 | NA | NA | NA | NA | NA | NA | NA | NA | 0.0992 | 8.65 | 0.47 |
| SB-13 @ 12.5-15' (40.179119/-105.058492) | 05/17/18 | 12.5-15 | <0.002 | <0.002 | <0.002 | <0.002 | <0.007 | <0.200 | <13.0 | <4.59 | NA | NA | NA |
| EXC-SS-02 @ 8' (40.178817 / -105.058472) | 08/13/18 | 8 | <0.002 | <0.002 | <0.002 | <0.002 | <0.007 | 0.938 | <50.0 | NA | NA | NA | NA |
| EXC-SS-03 @ 8' (40.178802 / -105.058495) | 08/13/18 | 8 | <0.002 | <0.002 | <0.002 | <0.002 | <0.007 | <0.200 | <50.0 | NA | NA | NA | NA |
| EXC-SS-04 @ 8' (40.178814 / -105.058520) | 08/13/18 | 8 | <0.002 | <0.002 | <0.002 | <0.002 | <0.007 | <0.200 | <50.0 | NA | NA | NA | NA |
| EXC-SS-05 @ 8' (40.178751 / -105.058589) | 08/13/18 | 8 | <0.002 | <0.002 | <0.002 | <0.002 | <0.007 | <0.200 | <50.0 | NA | NA | NA | NA |
| EXC-SS-07 @ 8' (40.178723 / -105.058611) | 08/13/18 | 8 | <0.002 | <0.002 | <0.002 | <0.002 | <0.007 | <0.200 | <50.0 | NA | NA | NA | NA |
| EXC-SS-08 @ 8' (40.178726 / -105.058638) | 08/13/18 | 8 | <0.002 | <0.002 | <0.002 | <0.002 | <0.007 | <0.200 | <50.0 | NA | NA | NA | NA |
| EXC-SS-12 @ 9' (40.178706 / -105.058474) | 08/16/18 | 9 | <0.002 | <0.002 | 0.009 | 0.040 | 0.017 | 1.21 | <50.0 | NA | NA | NA | NA |
| EXC-SS-13 @ 9' (40.178705 / -105.058393) | 08/16/18 | 9 | <0.002 | <0.002 | <0.002 | <0.002 | <0.007 | <0.200 | <50.0 | NA | NA | NA | NA |
| EXC-SS-14 @ 9' (40.178742 / -105.058370) | 08/16/18 | 9 | <0.002 | <0.002 | <0.002 | <0.002 | <0.007 | <0.200 | <50.0 | NA | NA | NA | NA |
| EXC-SS-16 @ 9' (40.178785 / -105.058545) | 08/17/18 | 9 | <0.050 | <0.050 | 1.24 | 7.06 | 0.596 | 528 | 195 | NA | NA | NA | NA |
| EXC-SS-17 @ 9' (40.178766 / -105.058563) | 08/17/18 | 9 | <0.050 | <0.050 | 4.53 | 66.6 | 1.57 | 1770 | 500 | NA | NA | NA | NA |



TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
RIDER #1
HISTORICAL RELEASE
40.178822 / -105.058512
NE¼ SE¼ SEC.36 T3N R69W 6PM
BOULDER COUNTY, COLORADO
REMEDATION #11300

| 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) | TPH-RRO (mg/kg) | Specific Conductance (mmhos/cm) | pH (pH units) | SAR |
|--|----------|--------------------------------|--------------------|--------------------|-------------------------|-----------------------------|------------------------|--------------------|--------------------|--------------------|---------------------------------------|------------------|---------------|
| COGCC - Regulatory Limits (Table 910-1) (mg/kg) | | | 0.17 | 85 | 100 | 175 | 23 | 500 | | | <4 | 6 to 9 | <12 |
| EXC-SS-18 @ 9' (40.178784 / -105.058619) | 08/20/18 | 9 | <0.050 | <0.050 | 0.394 | 1.35 | <0.175 | 163 | 53.6 | NA | NA | NA | NA |
| EXC-SS-19 @ 9' (40.178829 / -105.058598) | 08/20/18 | 9 | <0.050 | <0.050 | 1.19 | 7.66 | 0.300 | 440 | 100 | NA | NA | NA | NA |
| EXC-SS-22 @ 9' (40.178807 / -105.058647) | 08/22/18 | 9 | <0.050 | <0.050 | 0.176 | 1.40 | <0.175 | 81.3 | <50.0 | NA | NA | NA | NA |
| EXC-SS-23 @ 9' (40.178833 / -105.058658) | 08/22/18 | 9 | <0.050 | <0.050 | 0.983 | 7.05 | 0.220 | 340 | 260 | NA | NA | NA | NA |
| EXC-SS-24 @ 9' (40.178795 / -105.058373) | 08/23/18 | 9 | <0.050 | <0.050 | 0.214 | 3.06 | <0.200 | 88.2 | 51.8 | NA | NA | NA | NA |
| EXC-SS-26 @ 9' (40.178830 / -105.058357) | 08/23/18 | 9 | <0.050 | <0.050 | 0.415 | 4.94 | 0.416 | 601 | 573 | NA | NA | NA | NA |
| EXC-SS-30 @ 9' (40.178781 / -105.058331) | 08/24/18 | 9 | <0.050 | <0.050 | <0.050 | <0.050 | <0.200 | 10.2 | <50.0 | NA | NA | NA | NA |
| EXC-SS-31 @ 9' (40.178825 / -105.058312) | 08/24/18 | 9 | <0.050 | <0.050 | 0.104 | 2.24 | <0.200 | 197 | 303 | NA | NA | NA | NA |
| EXC-SS-32 @ 9' (40.178864 / -105.058327) | 08/24/18 | 9 | <0.002 | <0.002 | 0.002 | 0.034 | <0.008 | 0.452 | <50.0 | NA | NA | NA | NA |
| EXC-SS-36 @ 9' (40.178950 / -105.058383) | 08/24/18 | 9 | <0.002 | <0.002 | <0.002 | <0.002 | <0.008 | <0.200 | <50.0 | NA | NA | NA | NA |
| EXC-SS-38 @ 9' (40.178910 / -105.058452) | 08/24/18 | 9 | <0.050 | <0.050 | <0.050 | <0.050 | <0.200 | 112 | 240 | NA | NA | NA | NA |
| EXC-SS-40 @ 9' (40.178908 / -105.058449) | 08/27/28 | 9 | <0.050 | <0.050 | 1.56 | 15.0 | 0.565 | 1100 | 284 | NA | NA | NA | NA |
| EXC-SS-43 @ 9' (40.178904 / -105.058528) | 08/27/28 | 9 | <0.050 | <0.050 | 0.224 | 3.93 | 0.272 | 289 | 84.5 | NA | NA | NA | NA |
| EXC-SS-44 @ 9' (40.178876 / -105.058670) | 08/27/28 | 9 | <0.050 | <0.050 | <0.050 | <0.050 | <0.200 | 18.8 | <50.0 | NA | NA | NA | NA |
| EXC-SS-45 @ 9' (40.178823 / -105.058297) | 08/27/28 | 9 | <0.002 | <0.002 | <0.002 | <0.002 | 0.013 | 0.264 | <50.0 | NA | NA | NA | NA |
| EXC-SS-46 @ 9' (40.178905 / -105.058636) | 08/27/28 | 9 | <0.050 | <0.050 | 0.137 | 2.08 | <0.200 | 152 | 118 | NA | NA | NA | NA |
| EXC-SS-48 @ 9' (40.178937 / -105.058502) | 08/28/18 | 9 | <0.002 | <0.002 | <0.002 | <0.002 | <0.008 | 0.533 | <50.0 | NA | NA | NA | NA |



TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
RIDER #1
HISTORICAL RELEASE
40.178822 / -105.058512
NE¼ SE¼ SEC.36 T3N R69W 6PM
BOULDER COUNTY, COLORADO
REMEDIATION #11300

| 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) | TPH-RRO (mg/kg) | Specific Conductance (mmhos/cm) | pH (pH units) | SAR |
|---|----------|--------------------------------|--------------------|--------------------|-------------------------|-----------------------------|------------------------|--------------------|--------------------|--------------------|---------------------------------------|------------------|---------------|
| COGCC - Regulatory Limits (Table 910-1) (mg/kg) | | | 0.17 | 85 | 100 | 175 | 23 | 500 | | | <4 | 6 to 9 | <12 |
| EXC-SS-49 @ 9' (40.178921 / -105.058556) | 08/28/18 | 9 | <0.002 | <0.002 | <0.002 | <0.002 | <0.008 | <0.200 | <50.0 | NA | NA | NA | NA |
| EXC-SS-50 @ 9' (40.178919 / -105.058461) | 08/28/18 | 9 | <0.002 | <0.002 | <0.002 | <0.002 | <0.008 | 0.303 | <50.0 | NA | NA | NA | NA |
| EXC-SS-52 @ 9' (40.178860 / -105.058677) | 08/28/18 | 9 | <0.050 | <0.050 | <0.050 | 0.200 | <0.200 | 33.0 | 53.2 | NA | NA | NA | NA |
| MW-01R2 @ 7.5-10' (40.178764 / -105.058722) | 10/02/18 | 7.5-10 | <0.002 | <0.002 | <0.002 | <0.002 | <0.008 | 0.352 | <50.0 | NA | NA | NA | NA |
| COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram NA - Not Applicable TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics Values presented in bold indicate concentrations exceeded COGCC Table 910-1 regulatory limits. Values presented with a "<" symbol indicate concentrations were not observed above the laboratory reporting limit. | | | | | | | | | | | | | |



TABLE 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY
RIDER #1
HISTORICAL RELEASE
40.178822 / -105.058512
NE¼ SE¼ SEC.36 T3N R69W 6PM
BOULDER COUNTY, COLORADO
REMEDIAION #11300

| Sample Location (Latitude/Longitude) | Date | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) |
|---|----------|-------------------|-------------------|------------------------|----------------------------|
| COGCC Table 910-1 Regulatory Limits (µg/L) | | 5 | 560 | 700 | 1400 |
| MW-01R (40.178764 / -105.058722) | 05/17/18 | <4.00 | <4.00 | 27.4 | 180 |
| EXC-GW-01 (40.178816 / -105.058488) | 08/13/18 | <4.00 | <4.00 | 760 | 9420 |
| EXC-GW-02 (40.178741 / -105.058586) | 08/13/18 | <4.00 | <4.00 | 66.4 | 370 |
| EXC-GW-03 (40.178473 / -105.058411) | 08/16/18 | <4.00 | <4.00 | 430 | 6330 |
| EXC-GW-04 (40.178817 / -105.058338) | 08/24/18 | <4.00 | <4.00 | 85.4 | 1400 |
| EXC-GW-05 (40.178836 / -105.058509) | 08/28/18 | <4.00 | <4.00 | 26.1 | 428 |
| MW-01R2 (40.178764 / -105.058722) | 10/03/18 | <1.00 | <1.00 | <1.00 | <1.00 |

COGCC = Colorado Oil and Gas Conservation Commission
 µg/L - micrograms per liter
 Note: Values presented with a less than symbol (<) indicate concentrations were not observed at or above the laboratory reporting limit.
 Values presented in **bold** indicate concentrations exceeded COGCC Table 910-1 regulatory limits.

ATTACHMENT A

Soil Boring Log / Monitoring Well Completion Diagram

Boring Log/Well Completion Diagram: MW-01R2

| DEPTH (FT) | LITHOLOGY | SAMPLE | | | | OVM/OVA (PPM) | BLOW COUNT (per 0.5 FT) | DEPTH (FT) | WELL CONSTRUCTION DETAIL | COMMENTS |
|------------|--|-------------|------|--------|------------|---------------|-------------------------|------------|--------------------------|----------|
| | DESCRIPTION | GRAPHIC LOG | TYPE | NUMBER | RECOVERY % | | | | | |
| 0 | (0-9.5') sandy CLAY - light brown, dry-wet, medium stiff, low plasticity, well graded with 15% sand slight gray/black staining + odor @ 9-9.5' | CL | DP | 1 | 75 | 0.3 | N/A | | | |
| 5 | | | | | | 1.4 | | | | |
| 9 | wet @ ~9' | SW | DP | 2 | 75 | 4.3 | N/A | | | |
| 10 | (9.5-15') gravelly SAND - light brown, wet, medium dense, fine to coarse grained, well graded with 10% gravel black HC staining + odor @ 9.5-10' | | | | | 169.8 | | | | |
| 10 | BoB @ 15' | | | | | 24.3 | N/A | | | |
| 15 | | | | | | 2.6 | | | | |
| 20 | | | | | | | | | | |
| 25 | | | | | | | | | | |
| 30 | | | | | | | | | | |

DP - Direct Push
 HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

| | | | |
|--|-----------------------|--|--|
| START/COMPLETION DATE 10/2/2018 | | SAND PACK INTERVAL (FEET): 4-15 | |
| PROJECT: RIDER #1 | | BENTONITE/GROUT INTERVAL (FEET): 1-4 | |
| LOGGED BY: A. ROMANSKY | | WELL SCREEN INTERVAL (FEET): 5-15 | |
| DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE | | WELL DIAMETER (INCHES): 2 | |
| BORING DEPTH (FEET): 15 | WELL DEPTH (FEET): 15 | <p>EAGLE ENVIRONMENTAL CONSULTING, INC. 4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449</p> | |
| PID INSTRUMENT: MiniRAE 3000 - PID #6 | | | |
| TIME STARTED/COMPLETED: 1305/1400 | | | |
| SAMPLE COLLECTION DEPTH (FEET)/TIME: 7.5-10/1325 | | | |

ATTACHMENT B

Laboratory Analytical Reports



October 05, 2018

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Rider #1

Project Number - [none]

Attached are your analytical results for Rider #1 received by Origins Laboratory, Inc. October 03, 2018. This project is associated with Origins project number Y810055-01.

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: Rider #1

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------------|---------------|--------|-----------------------|------------------|
| MW-01R2@7.5-10' | Y810055-01 | Soil | October 2, 2018 13:25 | 10/03/2018 12:15 |

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: Rider #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y310055

Client: Eagle Env.

Client Project ID: Rider #1

Checklist Completed by: Jim Lee

Shipped Via: HD

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

Date/time completed: 10-3-18

Airbill #: NA

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

Cooler Number/Temperature: / 5.8 °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⁾ ? | | <input checked="" type="checkbox"/> | | |
| Is there ice present (document if blue ice is used) | <input checked="" type="checkbox"/> | | | |
| Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact) | | <input checked="" type="checkbox"/> | | |
| Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact) | | <input checked="" type="checkbox"/> | | |
| Were all samples received intact ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Was adequate sample volume provided ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ? | | <input checked="" type="checkbox"/> | | |
| Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ? | <input checked="" type="checkbox"/> | | | |
| For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative. | | | <input checked="" type="checkbox"/> | |
| Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH) | | | <input checked="" type="checkbox"/> | |
| Additional Comments (if any): | | | | |

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

Reviewed by (Project Manager) JP

Date/Time Reviewed 10/4/18

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: Rider #1

MW-01R2@7.5-10'
 10/2/2018 1:25:00PM

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

Origins Laboratory, Inc.
 Y810055-01 (Soil)

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

| | | | | | | | | | |
|------------------------|--------|--------|-------|---|---------|-----|------------|------------|---|
| Diesel (C10-C28) | ND | 50.0 | mg/kg | 1 | B8J0304 | JTD | 10/03/2018 | 10/03/2018 | U |
| Surrogate: o-Terphenyl | 70.6 % | 59-131 | | | " | " | " | " | |

GBTEX + Napthalene by 8260C

| | | | | | | | | | |
|-----------------------------|-------|-------|-------|---|---------|-----|------------|------------|---|
| Gasoline Range Hydrocarbons | 0.352 | 0.200 | mg/kg | 1 | B8J0401 | JTD | 10/04/2018 | 10/04/2018 | |
| 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 | 99.9 % | 70-130 | | | " | " | " | " | |
| Surrogate: Toluene-d8 | 101 % | 70-130 | | | " | " | " | " | |
| Surrogate: 4-Bromofluorobenzene | 103 % | 70-130 | | | " | " | " | " | |

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Rider #1

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 B8J0401 - EPA 5030 (soil)

Blank (B8J0401-BLK1)

Prepared: 10/04/2018 Analyzed: 10/04/2018

| | | | | | | | | | | |
|----------------------------------|----|-------|-------|------|--|-----|--------|--|--|---|
| 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 | 0.008 | " | | | | | | | U |
| Surrogate: 1,2-Dichloroethane-d4 | 63 | | ug/kg | 62.5 | | 100 | 70-130 | | | |
| Surrogate: Toluene-d8 | 63 | | " | 62.5 | | 100 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 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: Rider #1

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 B8J0401 - EPA 5030 (soil)

LCS (B8J0401-BS1)

Prepared: 10/04/2018 Analyzed: 10/04/2018

| | | | | | | | | | | |
|----------------------------------|-------|-------|-------|-------|--|------|--------|--|--|--|
| Benzene | 0.101 | 0.002 | mg/kg | 0.100 | | 101 | 70-130 | | | |
| Toluene | 0.105 | 0.002 | " | 0.100 | | 105 | 70-130 | | | |
| Ethylbenzene | 0.103 | 0.002 | " | 0.100 | | 103 | 70-130 | | | |
| m,p-Xylene | 0.204 | 0.004 | " | 0.200 | | 102 | 70-130 | | | |
| o-Xylene | 0.101 | 0.002 | " | 0.100 | | 101 | 70-130 | | | |
| Naphthalene | 0.104 | 0.008 | " | 0.100 | | 104 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 59 | | ug/kg | 62.5 | | 94.2 | 70-130 | | | |
| Surrogate: Toluene-d8 | 63 | | " | 62.5 | | 101 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 62 | | " | 62.5 | | 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: Rider #1

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 B8J0401 - EPA 5030 (soil)

| Matrix Spike (B8J0401-MS1) | Source: Y810055-01 | | | Prepared: 10/04/2018 Analyzed: 10/04/2018 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|-------|------|--------|--|--|--|
| Benzene | 0.098 | 0.002 | mg/kg | 0.100 | ND | 98.1 | 70-130 | | | |
| Toluene | 0.100 | 0.002 | " | 0.100 | ND | 100 | 70-130 | | | |
| Ethylbenzene | 0.100 | 0.002 | " | 0.100 | ND | 100 | 70-130 | | | |
| m,p-Xylene | 0.201 | 0.004 | " | 0.200 | ND | 101 | 70-130 | | | |
| o-Xylene | 0.101 | 0.002 | " | 0.100 | ND | 101 | 70-130 | | | |
| Naphthalene | 0.104 | 0.008 | " | 0.100 | 0.005 | 98.7 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 60 | | ug/kg | 62.5 | | 96.7 | 70-130 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 98.9 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 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: Rider #1

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 B8J0401 - EPA 5030 (soil)

| Matrix Spike Dup (B8J0401-MSD1) | Source: Y810055-01 | | | Prepared: 10/04/2018 Analyzed: 10/04/2018 | | | | | | |
|----------------------------------|--------------------|-------|-------|---|-------|------|--------|------|----|--|
| Benzene | 0.104 | 0.002 | mg/kg | 0.100 | ND | 104 | 70-130 | 5.63 | 20 | |
| Toluene | 0.107 | 0.002 | " | 0.100 | ND | 107 | 70-130 | 6.07 | 20 | |
| Ethylbenzene | 0.108 | 0.002 | " | 0.100 | ND | 108 | 70-130 | 7.06 | 20 | |
| m,p-Xylene | 0.215 | 0.004 | " | 0.200 | ND | 107 | 70-130 | 6.35 | 20 | |
| o-Xylene | 0.106 | 0.002 | " | 0.100 | ND | 106 | 70-130 | 4.59 | 20 | |
| Naphthalene | 0.108 | 0.008 | " | 0.100 | 0.005 | 103 | 70-130 | 3.85 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 59 | | ug/kg | 62.5 | | 93.7 | 70-130 | | | |
| Surrogate: Toluene-d8 | 62 | | " | 62.5 | | 99.4 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | 63 | | " | 62.5 | | 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: Rider #1

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 B8J0304 - EPA 3550B

Blank (B8J0304-BLK1)

Prepared: 10/03/2018 Analyzed: 10/03/2018

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

Surrogate: o-Terphenyl

| | | | | |
|----|---|------|------|--------|
| 37 | " | 50.0 | 73.7 | 59-131 |
|----|---|------|------|--------|

Blank (B8J0304-BLK2)

Prepared: 10/03/2018 Analyzed: 10/03/2018

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

Surrogate: o-Terphenyl

| | | | | |
|----|---|------|------|--------|
| 38 | " | 50.0 | 75.5 | 59-131 |
|----|---|------|------|--------|

LCS (B8J0304-BS1)

Prepared: 10/03/2018 Analyzed: 10/03/2018

| | | | | | | |
|------------------|-----|------|-------|------|------|--------|
| Diesel (C10-C28) | 963 | 50.0 | mg/kg | 1000 | 96.3 | 64-121 |
|------------------|-----|------|-------|------|------|--------|

Surrogate: o-Terphenyl

| | | | | |
|----|---|------|------|--------|
| 47 | " | 50.0 | 94.5 | 59-131 |
|----|---|------|------|--------|

LCS (B8J0304-BS2)

Prepared: 10/03/2018 Analyzed: 10/03/2018

| | | | | | | |
|------------------|-----|------|-------|------|------|--------|
| Diesel (C10-C28) | 989 | 50.0 | mg/kg | 1000 | 98.9 | 64-121 |
|------------------|-----|------|-------|------|------|--------|

Surrogate: o-Terphenyl

| | | | | |
|----|---|------|------|--------|
| 45 | " | 50.0 | 89.0 | 59-131 |
|----|---|------|------|--------|

Matrix Spike (B8J0304-MS1)

Source: Y810033-03

Prepared: 10/03/2018 Analyzed: 10/03/2018

| | | | | | | | |
|------------------|-----|------|-------|------|----|------|--------|
| Diesel (C10-C28) | 932 | 50.0 | mg/kg | 1000 | ND | 93.2 | 53-125 |
|------------------|-----|------|-------|------|----|------|--------|

Surrogate: o-Terphenyl

| | | | | |
|----|---|------|------|--------|
| 40 | " | 50.0 | 80.8 | 59-131 |
|----|---|------|------|--------|

Matrix Spike (B8J0304-MS2)

Source: Y810033-04

Prepared: 10/03/2018 Analyzed: 10/03/2018

| | | | | | | | |
|------------------|------|------|-------|------|----|-----|--------|
| Diesel (C10-C28) | 1030 | 50.0 | mg/kg | 1000 | ND | 103 | 53-125 |
|------------------|------|------|-------|------|----|-----|--------|

Surrogate: o-Terphenyl

| | | | | |
|----|---|------|------|--------|
| 43 | " | 50.0 | 85.4 | 59-131 |
|----|---|------|------|--------|

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: Rider #1

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 B8J0304 - EPA 3550B | | | | | | | | | | |
| Matrix Spike Dup (B8J0304-MSD1) | | Source: Y810033-03 | | | Prepared: 10/03/2018 Analyzed: 10/03/2018 | | | | | |
| Diesel (C10-C28) | 1020 | 50.0 | mg/kg | 1000 | ND | 102 | 53-125 | 8.60 | 20 | |
| Surrogate: o-Terphenyl | 46 | | " | 50.0 | | 92.8 | 59-131 | | | |
| Matrix Spike Dup (B8J0304-MSD2) | | Source: Y810033-04 | | | Prepared: 10/03/2018 Analyzed: 10/03/2018 | | | | | |
| Diesel (C10-C28) | 1030 | 50.0 | mg/kg | 1000 | ND | 103 | 53-125 | 0.463 | 20 | |
| Surrogate: o-Terphenyl | 47 | | " | 50.0 | | 93.5 | 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: Rider #1

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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.



October 08, 2018

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Rider #1

Project Number - [none]

Attached are your analytical results for Rider #1 received by Origins Laboratory, Inc. October 03, 2018. This project is associated with Origins project number Y810054-01.

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: Rider #1

CROSS REFERENCE REPORT

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-----------|---------------|--------|-----------------------|------------------|
| MW-01R2 | Y810054-01 | Water | October 3, 2018 10:25 | 10/03/2018 11:24 |

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: Rider #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4310054

Client: Eagle Env

Client Project ID: Rider #1

Checklist Completed by: DM Lee

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

Date/time completed: 10-3-12

Airbill #: PA

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

Cooler Number/Temperature: 1510 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: 1003

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

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

MD
 Reviewed by (Project Manager)

10/14/12
 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: Rider #1

MW-01R2

10/3/2018 10:25:00AM

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

Origins Laboratory, Inc.
Y810054-01 (Water)

BTEX by EPA 8260C

| | | | | | | | | | |
|----------------|----|------|------|---|---------|-----|------------|------------|---|
| Benzene | ND | 1.00 | ug/L | 1 | B8J0306 | JTD | 10/03/2018 | 10/04/2018 | U |
| Toluene | ND | 1.00 | " | " | " | JTD | " | 10/04/2018 | U |
| Ethylbenzene | ND | 1.00 | " | " | " | JTD | " | " | U |
| Xylenes, total | ND | 1.00 | " | " | " | JTD | " | " | U |

| | | | | | | | | | |
|----------------------------------|--------|--------|--|--|---|---|--|------------|--|
| Surrogate: 1,2-Dichloroethane-d4 | 105 % | 84-121 | | | " | " | | 10/04/2018 | |
| Surrogate: Toluene-d8 | 99.6 % | 85-115 | | | " | " | | " | |
| Surrogate: 4-Bromofluorobenzene | 107 % | 84-114 | | | " | " | | " | |

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: Rider #1

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 B8J0306 - EPA 5030B (Water)

Blank (B8J0306-BLK1)

Prepared: 10/03/2018 Analyzed: 10/03/2018

| | | | | | | | | | | |
|----------------------------------|----|------|------|------|------|--|--------|--|--|---|
| Benzene | ND | 1.00 | ug/L | | | | | | | U |
| Toluene | ND | 1.00 | " | | | | | | | U |
| Ethylbenzene | ND | 1.00 | " | | | | | | | U |
| Xylenes, total | ND | 1.00 | " | | | | | | | U |
| Surrogate: 1,2-Dichloroethane-d4 | 68 | | " | 62.5 | 109 | | 84-121 | | | |
| Surrogate: Toluene-d8 | 59 | | " | 62.5 | 95.1 | | 85-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 64 | | " | 62.5 | 103 | | 84-114 | | | |

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: Rider #1

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 B8J0306 - EPA 5030B (Water)

LCS (B8J0306-BS1)

Prepared: 10/03/2018 Analyzed: 10/03/2018

| | | | | | | | | | | |
|----------------------------------|------|------|------|------|--|------|----------|--|--|--|
| Benzene | 55.6 | 1.00 | ug/L | 50.0 | | 111 | 73.3-129 | | | |
| Toluene | 53.3 | 1.00 | " | 50.0 | | 107 | 76.2-123 | | | |
| Ethylbenzene | 53.7 | 1.00 | " | 50.0 | | 107 | 73.6-130 | | | |
| m,p-Xylene | 108 | 2.00 | " | 100 | | 108 | 76.1-126 | | | |
| o-Xylene | 51.8 | 1.00 | " | 50.0 | | 104 | 76.6-124 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 66 | | " | 62.5 | | 106 | 84-121 | | | |
| Surrogate: Toluene-d8 | 61 | | " | 62.5 | | 97.3 | 85-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 65 | | " | 62.5 | | 103 | 84-114 | | | |

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: Rider #1

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 B8J0306 - EPA 5030B (Water)

| Matrix Spike (B8J0306-MS1) | Source: Y810006-02 | | | Prepared: 10/03/2018 Analyzed: 10/03/2018 | | | | | | |
|-----------------------------------|---------------------------|------|------|--|------|------|--------|--|--|--|
| Benzene | 55.3 | 1.00 | ug/L | 50.0 | 2.53 | 106 | 74-130 | | | |
| Toluene | 50.7 | 1.00 | " | 50.0 | ND | 101 | 73-131 | | | |
| Ethylbenzene | 51.2 | 1.00 | " | 50.0 | ND | 102 | 76-132 | | | |
| m,p-Xylene | 103 | 2.00 | " | 100 | ND | 103 | 69-139 | | | |
| o-Xylene | 49.6 | 1.00 | " | 50.0 | ND | 99.2 | 74-131 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 67 | | " | 62.5 | | 107 | 84-121 | | | |
| Surrogate: Toluene-d8 | 61 | | " | 62.5 | | 97.1 | 85-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 64 | | " | 62.5 | | 103 | 84-114 | | | |

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: Rider #1

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 B8J0306 - EPA 5030B (Water)

| Matrix Spike Dup (B8J0306-MSD1) | Source: Y810006-02 | | | Prepared: 10/03/2018 Analyzed: 10/03/2018 | | | | | | |
|----------------------------------|--------------------|------|------|---|------|------|--------|------|----|--|
| Benzene | 53.2 | 1.00 | ug/L | 50.0 | 2.53 | 101 | 74-130 | 3.78 | 20 | |
| Toluene | 48.6 | 1.00 | " | 50.0 | ND | 97.2 | 73-131 | 4.19 | 20 | |
| Ethylbenzene | 49.2 | 1.00 | " | 50.0 | ND | 98.5 | 76-132 | 3.81 | 20 | |
| m,p-Xylene | 97.8 | 2.00 | " | 100 | ND | 97.8 | 69-139 | 5.20 | 20 | |
| o-Xylene | 48.1 | 1.00 | " | 50.0 | ND | 96.2 | 74-131 | 3.11 | 20 | |
| Surrogate: 1,2-Dichloroethane-d4 | 65 | | " | 62.5 | | 104 | 84-121 | | | |
| Surrogate: Toluene-d8 | 60 | | " | 62.5 | | 96.3 | 85-115 | | | |
| Surrogate: 4-Bromofluorobenzene | 65 | | " | 62.5 | | 104 | 84-114 | | | |

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: Rider #1

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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