



December 22, 2014

Mr. Jacob Evans
Noble Energy, Inc.
1600 Broadway, Suite 2200
Denver, Colorado 80202

**RE: Source Excavation and Groundwater Assessment Report
Mobile Premix #2-35 – Site Decommissioning / Separator Release
40.4501917 / -104.746922
NE¼ NW¼ SEC.35 T6N R66W 6PM
Weld County, Colorado
API # 05-123-10980**

Dear Mr. Evans,

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

1.0 SITE BACKGROUND

EAGLE was requested by Noble Energy, Inc. (Noble), to perform subsurface assessment activities at the site in response to potential soil and groundwater impacts associated with site decommissioning at the Mobile Premix #2-35 well and tank battery. On August 18, 2014, EAGLE collected soil samples, SS-01 through SS-05, following a water vault removal at the site. EAGLE also collected soil samples SS-06 through SS-12 following plug and abandon (P&A) activities at the Mobile Premix #2-35 well head.

While onsite, EAGLE observed surface staining in the area of the removed separator associated with the Mobile Premix #2-35 well, and per Noble, collected soil sample SS-13. All soil samples were collected to determine if adsorbed petroleum hydrocarbon impacts existed above Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 regulatory limits. Based on laboratory analytical results, a release was confirmed and excavation activities were scheduled.

The following narrative details source excavation and groundwater assessment activities that were completed at the site.

2.0 SITE DESCRIPTION

The Mobile Premix #2-35 site is located within the northeast quarter of the northwest quarter of Section 35, Township 6 north, Range 66 west of the 6th Prime Meridian. Based on records on file with the COGCC, the Mobile Premix #2-35 well was completed on July 16, 1983 to a total depth of 7,258 feet below ground surface (bgs) and is located at latitude: 40.45004 and longitude: -104.74709 in Weld County, Colorado. Based on documents filed with the COGCC, the Mobile Premix #2-35 well was plugged and abandoned beginning on July 28, 2014, and flow lines corresponding to the Mobile Premix #2-35 well were abandoned on September 30, 2014. The well head and associated infrastructure is located within a Martin Marietta Materials facility. A topographic site location map is presented as Figure 1. An aerial site location map is presented in Figure 2.

2.1 Site Hydrogeology

The soil lithology observed beneath the release location, consists of a silty clayey sand from the surface to approximately 5 feet bgs. A clayey sand was observed from approximately 5 feet bgs to 15 feet bgs. A well sorted, gravelly sand was observed from approximately 15 feet bgs to 35 feet bgs. Depth to groundwater was observed during excavation activities at depths ranging from approximately 20 to 22 feet bgs. Depth to groundwater observed during monitoring well installation activities ranged from approximately 11.5 to 25.5 feet bgs (influenced by Martin Marietta retention pond/reservoir adjacent to site). A detailed description of the subsurface lithology beneath the site is presented within the boring logs included in Attachment A.

3.0 SOIL EXCAVATION ACTIVITIES

3.1 Field Activities

On August 18, 2014, EAGLE collected soil samples, SS-01 through SS-13, following water vault removal, P&A activities, and separator removal associated with the Mobile Premix #2-35 site. Soil samples were collected to determine if adsorbed petroleum hydrocarbon impacts existed above COGCC Table 910-1 regulatory limits. A portion of each soil sample was placed in a sealable plastic bag for volatile organic compound (VOC) headspace analysis utilizing a field calibrated photoionization detector (PID). Another portion of the soil sample was placed in a 4-ounce glass jar and packed in an iced cooler for laboratory analysis.

Based on location and PID readings, EAGLE submitted soil samples SS-02, SS-05, SS-06, and SS-09 through SS-13, to Origins Laboratory, Inc. (Origins), located in Denver, Colorado, under standard chain of custody 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.

Based on laboratory analytical results, soil sample, SS-13@0.5', contained concentrations of benzene (1.01 milligrams per kilogram (mg/kg)), and TPH (combined TPH-GRO/TPH-DRO concentrations) (3,760 milligrams per kilogram (mg/kg)) exceeding their respective COGCC Table 910-1 regulatory limits of 0.17 mg/kg and 500 mg/kg. The laboratory analytical results confirmed additional source removal was required beneath the area where the separator was located.

From August 28, 2014 through September 19, 2014, EAGLE supervised excavation activities to remove adsorbed petroleum hydrocarbon impacts beneath and adjacent to the removed separator associated with the Mobile Premix #2-35 well. BG Services LLC (BG) provided the necessary equipment and personnel to remove and transport petroleum hydrocarbon impacted soil from the site.

Waste characterization/confirmation soil samples (SS-14 through SS-84) were collected at various locations to determine the lateral and vertical extent of petroleum hydrocarbon impacts in the soil beneath and adjacent to the separator release. A portion of each soil sample was placed in a sealable plastic bag for VOC headspace analysis utilizing a field calibrated PID. Another portion of the soil sample was placed in a 4-ounce glass jar and packed in an iced cooler for laboratory analysis.

Based on location and PID analysis, selected jarred soil samples were submitted to Origins, under standard chain of custody procedures, for analysis of BTEX, naphthalene, TPH-GRO, and TPH-DRO

following modified EPA Methods 8260c and 8015. The laboratory received the soil samples within the required holding time for each laboratory analysis.

A total of 16 confirmation soil samples (SS-15@4', SS-18@4', SS-23@5.5', SS-32@17', SS-33@16.5', SS-38@17', SS-41@16.5', SS-43@17', SS-48@17', SS-60@16.5', SS-65@17', SS-68@16.5', SS-74@17', SS-75@17', SS-80@17.5', and SS-81@17.5') were submitted for laboratory analysis. Spatial location of each soil sample was recorded using a Trimble GeoXT 6000 series instrument. A site map presenting the limits of the excavation, as well as soil sample locations, is included as Figure 3.

On August 29, 2014, groundwater was observed within the excavation at a depth of approximately 20 feet bgs. A grab groundwater sample (GW-01) was collected, placed in an iced cooler, and delivered to Origins, under standard chain of custody protocol, for laboratory analysis of BTEX following EPA Method 8260C. The laboratory received the groundwater sample within the required holding time for each laboratory analysis.

Following groundwater sample collection, approximately 500 pounds of granular activated carbon (GAC) and 500 pounds of gypsum were applied to the base of the excavation throughout excavation activities.

The final limits of the Mobile Premix #2-35 excavation extended approximately 40 feet north to south, and 60 feet east to west. The excavation was advanced to a depth of approximately 24 feet bgs. Approximately 5,630 cubic yards of soil was removed during excavation activities.

At the end of each excavation day, following collection of confirmatory soil samples, the excavation was backfilled with pea gravel above the water table, and clean structural fill to grade.

3.2 Laboratory Analytical Results - Excavation

3.2.1 Soil Analytical Results - Excavation

Based on soil laboratory analytical results, confirmation soil samples SS-15@4', SS-18@4', SS-32@17', SS-33@16.5', SS-38@17', SS-41@16.5', SS-43@17', SS-48@17', SS-60@16.5', SS-65@17', SS-68@16.5', SS-74@17', SS-75@17', SS-80@17.5', and SS-81@17.5' collected from the Mobile Premix #2-35 excavation did not contain concentrations of BTEX, naphthalene, TPH-GRO, and TPH-DRO exceeding their respective COGCC Table 910-1 regulatory limits and/or laboratory reporting limits.

Soil sample SS-23@5.5' contained a concentration of TPH (1510.2 mg/kg) exceeding the COGCC Table 910-1 regulatory limit of 500 mg/kg. Based on the laboratory analytical results for soil sample SS-23@5.5', the excavation was extended laterally and vertically to 24 feet bgs. Groundwater was observed at approximately 20 feet bgs, and therefore, a base soil sample was not collected.

Soil analytical results are summarized in Table 1 and presented in Figure 4. The laboratory analytical reports for the soil samples collected during source removal activities at the Mobile Premix #2-35 site are included in Attachment B.

3.2.2 Groundwater Analytical Results - Excavation

The groundwater sample (GW-01) collected on August 29, 2014, from the base of the Mobile Premix #2-35 excavation, contained a concentration of benzene (92.4 micrograms per liter (µg/L)) exceeding the COGCC Table 910-1 regulatory limit of 5 µg/L. Groundwater analytical results are summarized in Table 2. The groundwater laboratory analytical report is included in Attachment B.

4.0 SOIL BORING ADVANCEMENT/MONITORING WELL INSTALLATION ACTIVITIES

To assess dissolved BTEX impacts associated with the separator release, EAGLE submitted a site map with proposed monitoring well locations to Noble on September 26, 2014. Seven initial monitoring wells (MW-01 through MW-07) were proposed for installation. Based on groundwater laboratory analytical results, EAGLE subsequently proposed the installation additional monitoring wells, MW-08 through MW-14, in order to achieve point of compliance (POC) within the groundwater.

4.1 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.

4.2 Soil Boring Advancement/Monitoring Well Completion Activities

On October 15 2014, October 16, 2014, November 6, 2014, and December 15, 2014, a total of 14 soil borings (MW-01 through MW-14) were advanced around the separator release area. Following advancement activities, each soil boring was completed as a 1-inch, groundwater monitoring well to define the extents of dissolved petroleum hydrocarbon impacts beneath the site. Soil boring advancement/monitoring well installation activities were completed by EAGLE using a 7822DT Series Geoprobe track rig.

Each location was logged in the field according to soil description, soil classification, moisture content, staining, and VOC concentrations. Monitoring wells MW-02, MW-03, MW-04, and MW-12 were completed with 1-inch, schedule 40, poly vinyl chloride (PVC) pipe to total depths between approximately 16 to 20 feet bgs. Ten to fifteen feet of 0.010 slot, 1-inch, PVC screen was placed at the bottom of the boring followed by five to ten feet of PVC riser.

The remaining monitoring wells (MW-01, MW-05 through MW-11, MW-13, and MW-14) were completed with 1-inch, schedule 40, poly vinyl chloride (PVC) pipe to total depths between approximately 25 to 35 feet bgs. Fifteen to 25 feet of 0.010 slot, 1-inch, PVC screen was placed at the bottom of the boring followed by 10-12 feet of PVC riser. The well annulus of each monitoring well was backfilled with 10/20 silica sand to approximately 1 foot above the screened section followed by a hydrated bentonite seal to the surface.

The monitoring wells were completed at varying depths and with varying screen intervals in order to account for the fluctuating groundwater table and influence from the adjacent retention pond/reservoir. All monitoring wells (MW-01 through MW-14) were completed with 8-inch traffic rated steel flush mounts. EAGLE also recorded spatial locations of each monitoring well using a Trimble GeoXT 6000 series instrument.

Soil boring logs/monitoring well completion diagrams are included in Attachment A. Monitoring well locations are presented in Figure 5. A geological cross section is included as Figure 6.

4.3 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 interval was placed in a

sealable plastic bag, for VOC headspace analysis utilizing a field calibrated PID. Another portion of the soil sample was placed in a 4-ounce glass jar and packed in an iced cooler for laboratory analysis.

Based on PID reading and sample location above the saturated zone, one soil sample from each boring (MW-01 through MW-14) was submitted to Origins, following standard chain of custody procedures, for laboratory analysis. Each soil sample was analyzed for BTEX, naphthalene, TPH-GRO, and TPH-DRO, following modified EPA Methods 8260c and 8015. The laboratory received the soil samples within the required holding time for each laboratory analysis.

4.4 Groundwater Sampling Procedures

Groundwater samples were collected from monitoring wells following each round of monitoring well installation activities.

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 liquids (LNAPL) to an accuracy of 0.01 feet.

Groundwater elevations were measured for all monitoring wells on December 15, 2014. Relative groundwater elevations within each monitoring well ranged from 73.37 feet (MW-13) to 86.20 feet (MW-04). The groundwater flow direction beneath the site during the December 2014 groundwater gauging event was predominantly to the southwest, with an average hydraulic gradient of 0.081 feet per foot across the site (measured from MW-05 to MW-13). Groundwater elevation data is summarized in Table 3 and presented in Figure 7.

Prior to sample collection, each monitoring well was developed through purging each location a minimum of six well volumes using disposable PVC bailers. Following recharge, groundwater samples were collected from the bottom of each monitoring well in 40 milliliter (mL) amber vials. The groundwater samples were submitted for laboratory analysis for 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 Quality Assurance/Quality Control (QA/QC) parameters.

4.5 Laboratory Analytical Results

4.5.1 Soil Analytical Results

Based on laboratory analytical results, none of the soil samples collected from monitoring wells MW-01 through MW-14 contained concentrations of BTEX, naphthalene, TPH-GRO, and TPH-DRO exceeding their respective COGCC Table 910-1 regulatory limits and/or laboratory reporting limits. Soil analytical results are summarized in Table 1 and included in Figure 5. The soil sample laboratory analytical reports are included in Attachment B.

4.5.2 Groundwater Analytical Results

Based on laboratory analytical results, the groundwater samples collected from monitoring wells MW-01 (239 µg/L), MW-06 (104 µg/L), MW-07 (166 µg/L), and MW-10 (71.8 µg/L) contained concentrations of benzene exceeding the COGCC Table 910-1 regulatory limit of 5 µg/L.

Monitoring wells MW-02, MW-03, MW-04, MW-05, MW-08, MW-09, MW-11, MW-12, MW-13, and MW-14 did not contain concentrations of BTEX exceeding their respective COGCC Table 910-1

regulatory limits, and are currently point of compliance (POC) wells at the site. POC wells are present upgradient, downgradient, and crossgradient of the dissolved BTEX impacts.

Groundwater analytical results are summarized in Table 2 and presented in Figure 10. The groundwater laboratory analytical report is included in Attachment B.

5.0 CONCLUSIONS

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

- Approximately 5,630 cubic yards of soil was removed from the Mobile Premix #2-35 site from August 28, 2014 through September 19, 2014.
- Confirmation soil samples (SS-15@4', SS-18@4', SS-32@17', SS-33@16.5', SS-38@17', SS-41@16.5', SS-43@17', SS-48@17', SS-60@16.5', SS-65@17', SS-68@16.5', SS-74@17', SS-75@17', SS-80@17.5', and SS-81@17.5') collected from the sidewalls of the Mobile #2-35 excavation did not contain concentrations of BTEX, naphthalene, TPH-GRO, and TPH-DRO exceeding their respective COGCC Table 910-1 regulatory limits and/or laboratory reporting limits.
- Grab groundwater sample, GW-01, collected from the base of the excavation, contained a concentration of benzene exceeding the COGCC Table 910-1 regulatory limit.
- On October 15 2014, October 16, 2014, November 6, 2014, and December 15, 2014, EAGLE installed 14 groundwater monitoring wells (MW-01 through MW-14) at the site.
- Soil samples collected from monitoring wells MW-01 through MW-14 did not contain concentrations of BTEX, naphthalene, TPH-GRO, and TPH-DRO exceeding their respective COGCC Table 910-1 regulatory limits and/or laboratory reporting limits.
- The groundwater samples collected from monitoring wells MW-01, MW-06, MW-07, and MW-10 contained concentrations of benzene exceeding the COGCC Table 910-1 regulatory limit.
- Point of Compliance wells are located upgradient, downgradient, and crossgradient of the dissolved BTEX plume.

6.0 RECOMMENDATIONS

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

- Investigate remedial technologies to address residual dissolved benzene concentrations beneath the site.

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

Sincerely,

EAGLE ENVIRONMENTAL CONSULTING, INC.



Robin Lockwood
Project Scientist



Martin Eckert III
Senior Project Manager

TABLES

Table 1: Soil Analytical Results Summary

Table 2: Groundwater Analytical Results Summary

Table 3: Groundwater Elevation Summary

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
MOBILE PREMIX #2-35
SITE DECOMMISSIONING/SEPARATOR RELEASE
40.4501917 / -104.7469222
NE¼ NW¼ SEC.35 T6N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-10980

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
COGCC Table 910-1 Regulatory Limits (mg/kg)			0.17	85	100	175	23	500		<4	6 to 9	<12^5
SS-02 @ 3.0' (40.450299583 / -104.747261463)	08/18/14	3.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	0.128	8.10	0.25
SS-05 @ 6.5' (40.450308776 / -104.747290037)	08/18/14	6.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
SS-06 @ 4.5' (40.450071901 / -104.747123338)	08/18/14	4.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
SS-09 @ 4.5' (40.450013277 / -104.747099855)	08/18/14	4.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
SS-10 @ 4.5' (40.450084294 / -104.747060845)	08/18/14	4.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
SS-11 @ 4.5' (40.45005039 / -104.747053319)	08/18/14	4.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
SS-12 @ 7.5' (40.450059381 / -104.747054489)	08/18/14	7.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	68.0	NA	NA	NA
SS-13 @ 0.5' (40.450230 / -104.746889)	08/18/14	0.5	1.01	<0.10	1.41	9.39	1.46	520	3240	NA	NA	NA
SS-15 @ 4' (40.450244 / -104.746833)	08/28/14	4.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
SS-18 @ 4' (40.450264 / -104.746865)	08/28/14	4.0	0.007	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
SS-23 @ 5.5' (40.450228 / -104.746887)	08/28/14	5.5	<0.05	<0.05	<0.05	<0.05	<0.20	1440	70.2	NA	NA	NA
SS-32 @ 17' (40.450272987 / -104.746809891)	09/02/14	17.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
SS-33 @ 16.5' (40.450307109 / -104.74684196)	09/02/14	16.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
SS-38 @ 17' (40.45035611 / -104.746953286)	09/03/14	17.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
SS-41 @ 16.5' (40.450325057 / -104.747067669)	09/04/14	16.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
SS-43 @ 17' (40.450342194 / -104.747062486)	09/04/14	17.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
SS-48 @ 17' (40.450234178 / -104.746763535)	09/05/14	17.0	<0.002	<0.002	<0.002	<0.002	<0.008	0.91	<50.0	NA	NA	NA
SS-60 @ 16.5' (40.450235055 / -104.747085047)	09/15/14	16.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
SS-65 @ 17' (40.450196321 / -104.746765478)	09/16/14	17.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
SS-68 @ 16.5' (40.450159149 / -104.746825152)	09/16/14	16.5	0.005	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
SS-74 @ 17' (40.450158526 / -104.74692244)	09/18/14	17.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
SS-75 @ 17' (40.450136058 / -104.746981636)	09/18/14	17.0	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
MOBILE PREMIX #2-35
SITE DECOMMISSIONING/SEPARATOR RELEASE
40.4501917 / -104.7469222
NE¼ NW¼ SEC.35 T6N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-10980

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
COGCC Table 910-1 Regulatory Limits (mg/kg)			0.17	85	100	175	23	500		<4	6 to 9	<12^5
SS-80 @ 17.5' (40.450153271 / -104.747075399)	09/19/14	17.5	0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
SS-81 @ 17.5' (40.450127739 / -104.747044732)	09/19/14	17.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
MW-01 @ 17.5-20' (40.4502354652 / -104.746904143)	10/15/14	17.5-20	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
MW-02 @ 10-12.5' (40.4503919072 / -104.747042719)	10/16/14	10-12.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
MW-03 @ 7.5-10' (40.4503826842 / -104.746897331)	10/16/14	7.5-10	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
MW-04 @ 7.5-10' (40.4503230212 / -104.746754675)	10/16/14	7.5-10	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
MW-05 @ 5-7.5' (40.4501119982 / -104.74681708)	10/15/14	5-7.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
MW-06 15-17.5' (40.450115552 / -104.746971278)	10/15/14	15-17.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.20	<50.0	NA	NA	NA
MW-07 @ 10-12.5' (40.4502351862 / -104.747078466)	10/15/14	10-12.5	<0.002	<0.002	<0.002	0.008	<0.008	<0.20	177	NA	NA	NA
MW-08 @ 12.5-15' (40.450307791 / -104.747229508)	11/06/14	12.5-15	<0.002	<0.002	<0.002	<0.002	<0.008	1.70	129	NA	NA	NA
MW-09 @ 12.5-15' (40.45019206 / -104.747225102)	11/06/14	12.5-15	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0	NA	NA	NA
MW-10 @ 17.5-19.5' (40.450097474 / -104.747134496)	11/06/14	17.5-19.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0	NA	NA	NA
MW-11 @ 5-7.5' (40.450012426 / -104.747056582)	11/06/14	5-7.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0	NA	NA	NA
MW-12 @ 5-7.5' (40.450004364 / -104.7469061)	11/06/14	5-7.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0	NA	NA	NA
MW-13 @ 5-7.5' (40.450087264 / -104.47341193)	12/15/14	5-7.5	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0	NA	NA	NA
MW-14 @ 7.5-10' (40.44990067 / -104.747276122)	12/15/14	7.5-10	<0.002	<0.002	<0.002	<0.002	<0.008	<0.200	<50.0	NA	NA	NA
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter NA = Not Analyzed TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics SAR = Sodium Adsorption Ratio Note: Values presented in bold typeface exceed their respective COGCC - Regulatory Limits (Table 910-1). Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.												



TABLE 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY
MOBILE PREMIX #2-35
SITE DECOMMISSIONING/SEPARATOR RELEASE
40.4501917 / -104.7469222
NE¼ NW¼ SEC.35 T6N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-10980

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
GW-01 (40.450240 / -104.746894)	08/29/14	92.4	78.3	9.3	98.5
MW-01 (40.4502354652 / -104.746904143)	10/20/14	239	<2.0	84.5	591
MW-02 (40.4503919072 / -104.747042719)	10/20/14	<1.0	<1.0	<1.0	<1.0
MW-03 (40.4503826842 / -104.746897331)	10/20/14	<1.0	<1.0	<1.0	<1.0
MW-04 (40.4503230212 / -104.746754675)	10/20/14	<1.0	<1.0	<1.0	<1.0
MW-05 (40.4501119982 / -104.74681708)	10/20/14	<1.0	<1.0	<1.0	<1.0
MW-06 (40.450115552 / -104.746971278)	10/20/14	104	4.4	2.1	16.0
MW-07 (40.4502351862 / -104.747078466)	10/20/14	166	6.0	30.6	201
MW-08 (40.450307791 / -104.747229508)	11/07/14	<1.0	<1.0	<1.0	<1.0
MW-09 (40.45019206 / -104.747225102)	11/07/14	<1.0	<1.0	<1.0	<1.0
MW-10 (40.450097474 / -104.747134496)	11/07/14	71.8	<1.0	10.1	4.9
MW-11 (40.450012426 / -104.747056582)	11/07/14	1.6	<1.0	<1.0	<1.0
MW-12 (40.450004364 / -104.7469061)	11/07/14	<1.0	<1.0	<1.0	<1.0
MW-13 (40.450087264 / -104.47341193)	12/15/14	<1.0	<1.0	<1.0	<1.0
MW-14 (40.44990067 / -104.747276122)	12/15/14	<1.0	<1.0	<1.0	<1.0
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 typeface exceed their respective COGCC - Regulatory Limits (Table 910-1).					

TABLE 3
GROUNDWATER ELEVATION SUMMARY
MOBILE PREMIX #2-35
SITE DECOMMISSIONING/SEPARATOR RELEASE
40.4501917 / -104.7469222
NE¼ NW¼ SEC.35 T6N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-10980

Sample Location (Latitude/Longitude)	Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Dissolved Oxygen (mg/L)	Temperature (°F)	pH	Specific Conductivity (µS/cm)	Oxidation Reduction Potential (mV)
MW-01 (40.4502354652 / -104.746904143)	10/20/14	99.41	24.34	75.07	0.76	22.15	7.16	3517	15.7
	12/15/14		23.19	76.22	NM	NM	NM	NM	NM
MW-02 (40.4503919072 / -104.747042719)	10/20/14	99.20	13.41	85.79	1.82	20.46	6.82	1450	10.0
	12/15/14		19.58	79.62	NM	NM	NM	NM	NM
MW-03 (40.4503826842 / -104.746897331)	10/20/14	98.97	10.91	88.06	1.13	19.80	6.99	1025	-1.9
	12/15/14		13.68	85.29	NM	NM	NM	NM	NM
MW-04 (40.4503230212 / -104.746754675)	10/20/14	98.01	9.41	88.60	3.00	19.44	7.09	1008	15.6
	12/15/14		11.81	86.20	NM	NM	NM	NM	NM
MW-05 (40.4501119982 / -104.74681708)	10/20/14	99.67	10.79	88.88	2.67	20.51	6.89	1094	16.1
	12/15/14		15.09	84.58	NM	NM	NM	NM	NM
MW-06 (40.450115552 / -104.746971278)	10/20/14	99.91	25.75	74.16	0.85	19.38	6.89	1271	-86.0
	12/15/14		24.53	75.38	NM	NM	NM	NM	NM
MW-07 (40.4502351862 / -104.747078466)	10/20/14	99.55	25.40	74.15	1.34	20.18	6.72	2665	-66.9
	12/15/14		23.95	75.60	NM	NM	NM	NM	NM
MW-08 (40.450307791 / -104.7)47229508	11/07/14	99.88	33.60	66.28	1.13	18.13	6.77	1400	-94.4
	12/15/14		24.57	75.31	NM	NM	NM	NM	NM
MW-09 (40.45019206 / -104.747225102)	11/07/14	99.72	34.65	65.07	1.55	17.18	7.34	1119	-62.4
	12/15/14		25.01	74.71	NM	NM	NM	NM	NM
MW-10 (40.450097474 / -104.747134496)	11/07/14	99.77	34.00	65.77	0.45	18.15	7.14	1487	-138.2
	12/15/14		25.15	74.62	NM	NM	NM	NM	NM
MW-11 (40.450012426 / -104.747056582)	11/07/14	100.00	34.30	65.70	0.35	17.52	7.52	1166	-167.5
	12/15/14		25.92	74.08	NM	NM	NM	NM	NM

TABLE 3
GROUNDWATER ELEVATION SUMMARY
MOBILE PREMIX #2-35
SITE DECOMMISSIONING/SEPARATOR RELEASE
40.4501917 / -104.7469222
NE¼ NW¼ SEC.35 T6N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-10980

Sample Location (Latitude/Longitude)	Date	Top of Casing Elevation (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	Dissolved Oxygen (mg/L)	Temperature (°F)	pH	Specific Conductivity (µS/cm)	Oxidation Reduction Potential (mV)
MW-12 (40.450004364 / -104.7469061)	11/07/14	99.78	20.80	78.98	2.67	18.34	7.14	1140	-4.3
	12/15/14		17.96	81.82	NM	NM	NM	NM	NM
MW-13 (40.450087264 / -104.47341193)	12/15/14	99.53	26.16	73.37	1.94	14.86	7.26	1218	39.7
MW-14 (40.44990067 / -104.747276122)	12/15/14	99.88	25.36	74.52	2.08	15.04	7.21	1108	-6.1
NOTES: NM - Not Measured °F = degrees Fahrenheit mg/L = milligrams per liter µS/cm = microsiemens per centimeter mV = millivolts									

FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Excavation Soil Sample Location Map

Figure 4: Excavation Soil Sample Analytical Map

Figure 5: Monitoring Well Soil Sample Analytical Map

Figure 6: Geologic Cross Section (A-A')

Figure 7: Groundwater Elevation Map

Figure 8: Groundwater Sample Location Map



Approximate site location



Topographic Site Location Map
 Mobile Premix #2-35
 Site Decommissioning / Separator Release
 40.4501917/-104.7469222
 NENW SEC.35 T6N R66W 6 PM
 Weld County, Colorado
 API # 05-123-10980



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

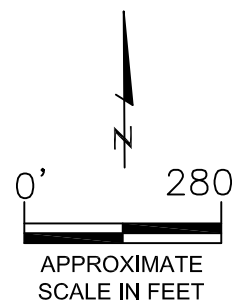
Figure 1



LEGEND

- MOBILE PREMIX #2-35 TANK BATTERY
- X APPROXIMATE SEPARATOR RELEASE LOCATION (40.4501917 / -104.7469222)
- APPROXIMATE LOCATION OF REMOVED WATER VAULT (40.450293 / -104.747272)
- X APPROXIMATE MOBILE PREMIX #2-35 P&A LOCATION (40.45004 / -104.74709)

P&A = PLUGGED AND ABANDONED



AERIAL SITE LOCATION MAP

MOBILE PREMIX #2-35
 SITE DECOMMISSIONING / SEPARATOR RELEASE
 40.4501917 / -104.7469222
 NENW SEC.35 T6N R66W 6 PM
 WELD COUNTY, COLORADO
 API # 05-123-10980

DATE: 08/20/14

FIG. NO.
2

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LEGEND

>

APPROXIMATE SOURCE LOCATION

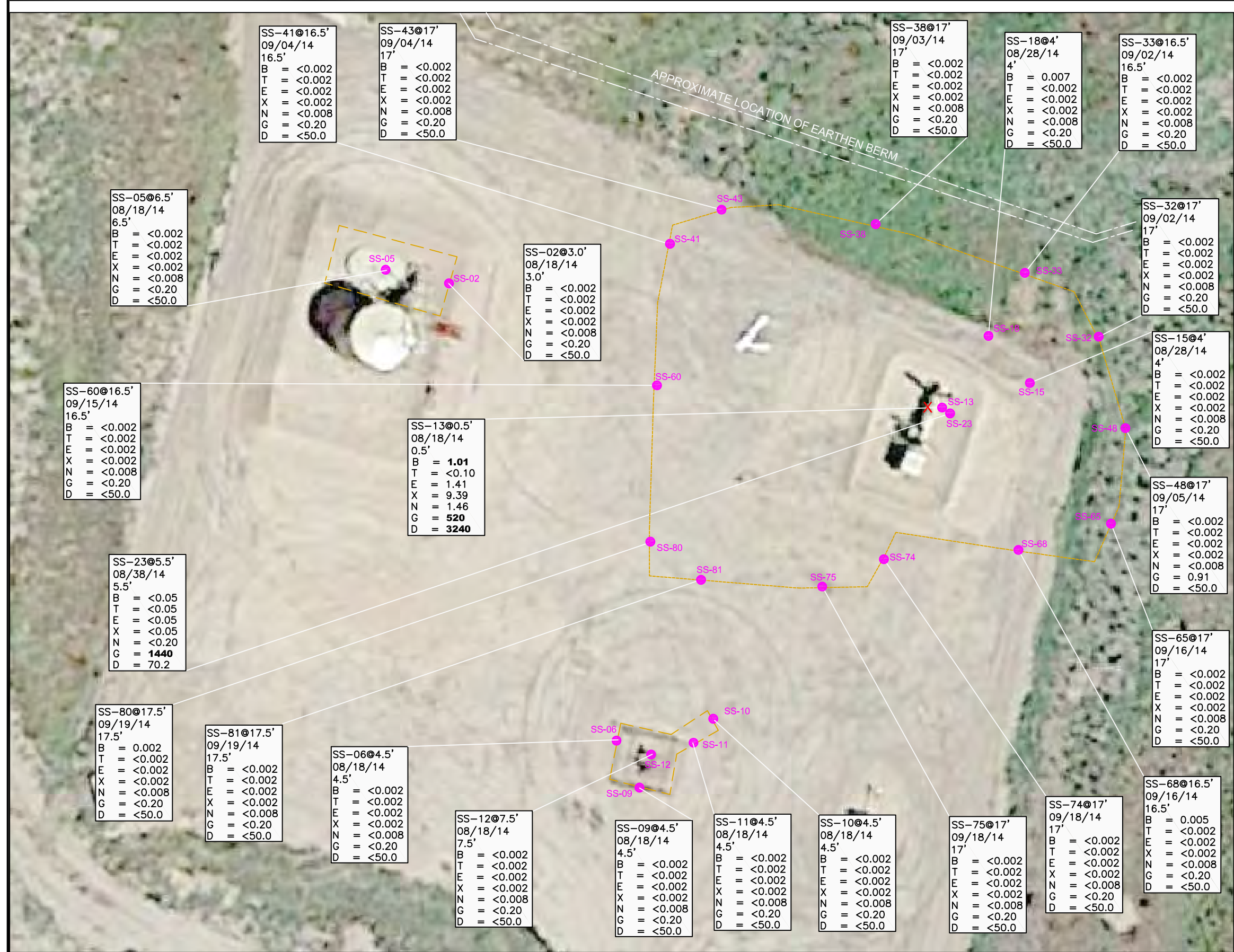
APPROXIMATE EXCAVATION EXTENTS

SS-01

APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED WITH PHOTOIONIZATION DETECTOR

SS-02

APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR
LABORATORY ANALYSIS



LEGEND

X APPROXIMATE SOURCE LOCATION

APPROXIMATE EXCAVATION EXTENTS

SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

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

mg/kg = MILLIGRAMS PER KILOGRAM

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

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

VALUES PRESENTED IN **BOLD** EXCEED THE COGCC TABLE 910-1 REGULATORY LIMITS FOR THAT COMPOUND
COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

EXCAVATION SOIL SAMPLE ANALYTICAL MAP
MOBILE PREMIX #2-35
SITE DECOMMISSIONING / SEPARATOR RELEASE
40.4501917 / -104.7469222
NENW SEC.35 T6N R66W 6 PM
WELD COUNTY, COLORADO
API # 05-123-10980

DATE:
12/16/14

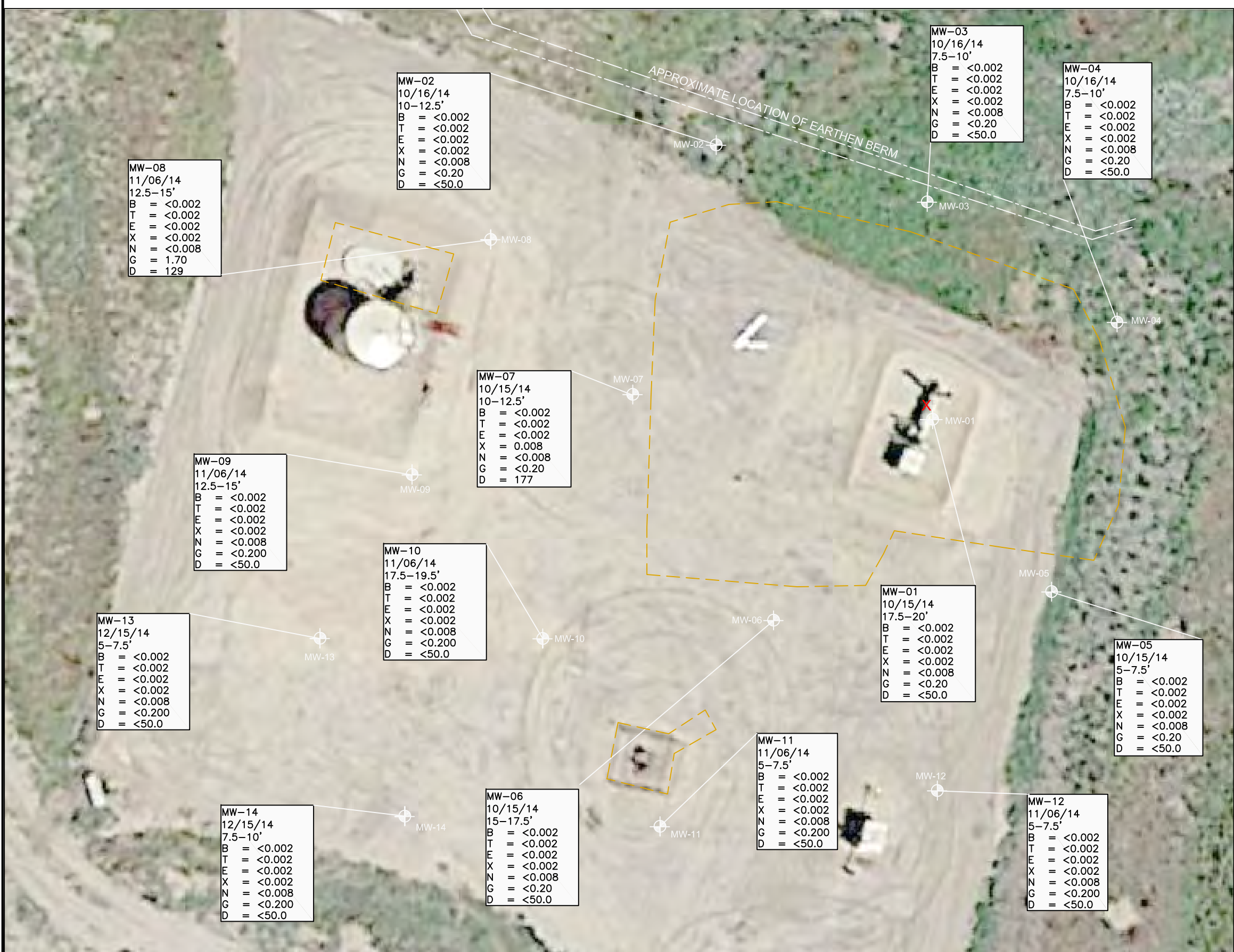
FIG NO.:
4

DRAWN BY:
AMN

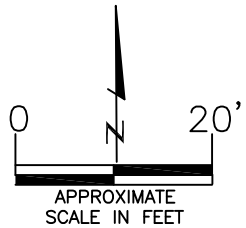
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NOTE: AERIAL IS NOT REPRESENTATIVE OF CURRENT SITE TOPOGRAPHY. SITE HAS BEEN DECOMMISSIONED AND REGRADED. AN EARTHEN BERM IS NOW PRESENT ON THE NORTH SIDE OF THE EXCAVATION.

0 20'
N
APPROXIMATE SCALE IN FEET



NOTE: AERIAL IS NOT REPRESENTATIVE OF CURRENT SITE TOPOGRAPHY. SITE HAS BEEN DECOMMISSIONED AND REGRADED. AN EARTHEN BERM IS NOW PRESENT ON THE NORTH SIDE OF THE EXCAVATION.



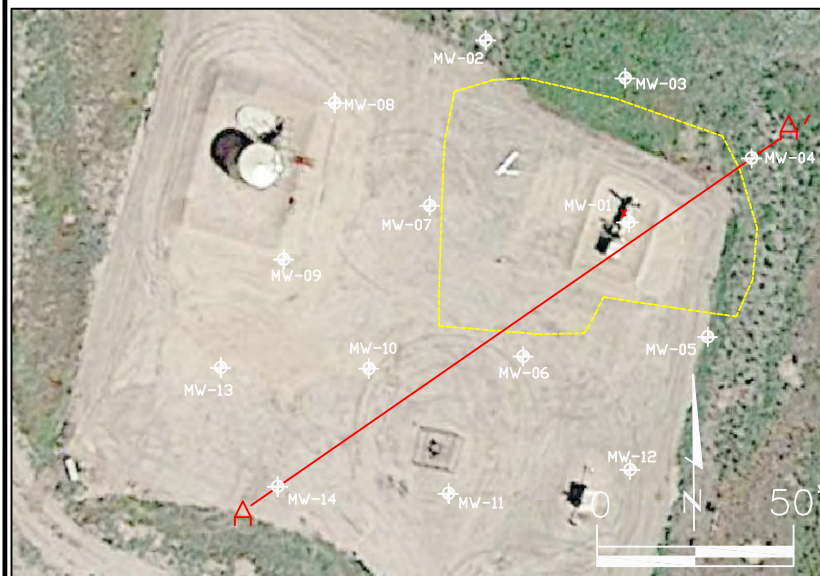
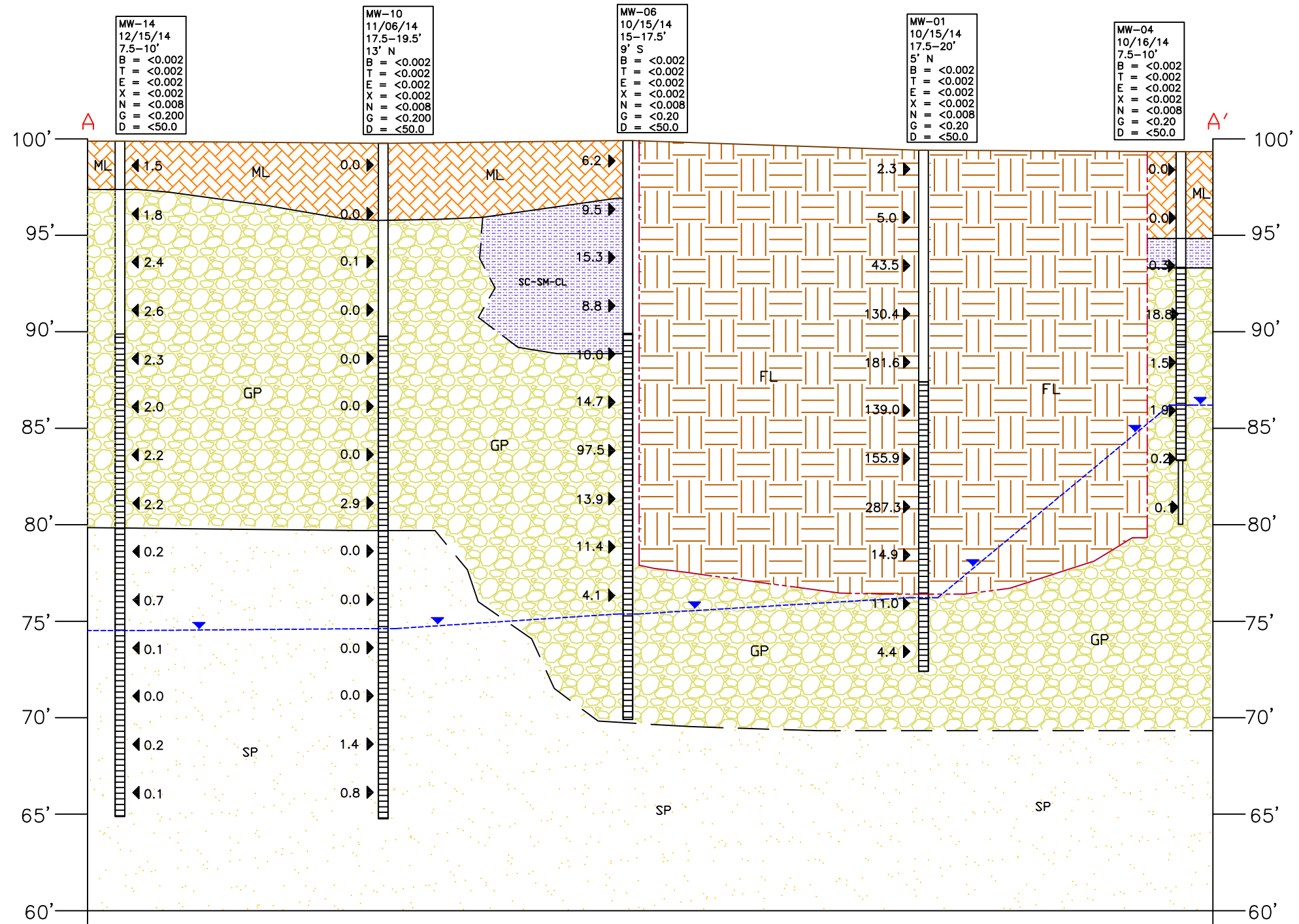
MONITORING WELL SOIL SAMPLE ANALYTICAL MAP
MOBILE PREMIX #2-35
SITE DECOMMISSIONING / SEPARATOR RELEASE
40.4501917 / -104.7469222
NENW SEC.35 T6N R66W 6 PM
WELD COUNTY, COLORADO
API # 05-123-10980

DATE:
12/16/14
FIG NO.:
5

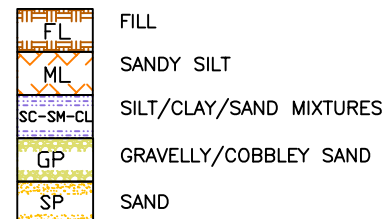
DRAWN BY:
AMN



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LEGEND



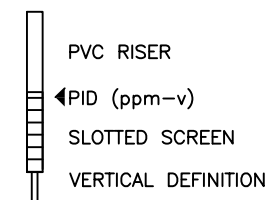
- GROUND SURFACE
- EXCAVATION BOUNDARIES
- OBSERVED CONTACT
- INFERRED CONTACT
- OBSERVED GROUNDWATER (12/15/14)
- A — A' LINE OF CROSS SECTION

PARAMETERS

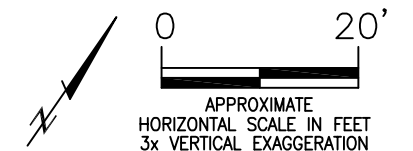
SAMPLE LOCATION
DATE
DEPTH (FEET)
OFFSET FROM A-A' (FEET-DIRECTION)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)
N = NAPHTHALENE (mg/kg)

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 THE LABORATORY REPORTING LIMIT



ppm-v = PARTS PER MILLION BY VOLUME



GEOLOGIC CROSS SECTION (A-A')
MOBILE PREMIX #2-35
SITE DECOMMISSIONING / SEPARATOR RELEASE
40.4501917 / -104.7469222
NE1/4 NW1/4 SEC.35 T6N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-10980



FIG. NO. 6
DATE: 12/16/14
DRAWN BY: AMN



LEGEND



APPROXIMATE SOURCE LOCATION



APPROXIMATE EXCAVATION EXTENTS



APPROXIMATE MONITORING WELL LOCATIONS

(4748.25) GROUNDWATER ELEVATION (FT.)

--- INFERRED GROUNDWATER ELEVATION CONTOUR (FT.)



APPROXIMATE GROUNDWATER FLOW DIRECTION

FT. = FEET

NOTE: GROUNDWATER ELEVATION DATA WAS COLLECTED 12/15/14. GROUNDWATER ELEVATION DATA COLLECTED FROM MONITORING WELLS MW-01 AND MW-14 WERE NOT USED IN THE CONSTRUCTION OF GROUNDWATER CONTOURS.

GROUNDWATER ELEVATION MAP
MOBILE PREMIX #2-35
SITE DECOMMISSIONING / SEPARATOR RELEASE
40.4501917 / -104.7469222
NENW SEC.35 T6N R66W 6 PM
WELD COUNTY, COLORADO
API # 05-123-10980

DATE:

12/16/14

FIG NO.:

7

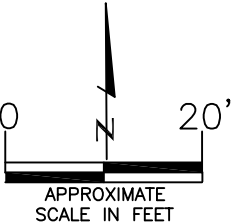
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NOTE: AERIAL IS NOT REPRESENTATIVE OF CURRENT SITE TOPOGRAPHY. SITE HAS BEEN DECOMMISSIONED AND REGRADED. AN EARTHEN BERM IS NOW PRESENT ON THE NORTH SIDE OF THE EXCAVATION.





LEGEND

X APPROXIMATE SOURCE LOCATION

APPROXIMATE EXCAVATION EXTENTS

APPROXIMATE MONITORING WELL LOCATIONS

APPROXIMATE GRAB GROUNDWATER SAMPLE LOCATION

PARAMETERS

GROUNDWATER 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

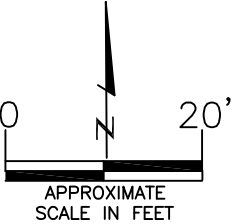
NOTE: VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

VALUES PRESENTED IN **BOLD** EXCEED THE COGCC TABLE 910-1 REGULATORY LIMIT FOR THAT COMPOUND

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

GROUNDWATER SAMPLE ANALYTICAL MAP
MOBILE PREMIX #2-35
SITE DECOMMISSIONING / SEPARATOR RELEASE
40.4501917 / -104.7469222
NENW SEC.35 T6N R66W 6 PM
WELD COUNTY, COLORADO
API # 05-123-10980

NOTE: AERIAL IS NOT REPRESENTATIVE OF CURRENT SITE TOPOGRAPHY. SITE HAS BEEN DECOMMISSIONED AND REGRADED. AN EARTHEN BERM IS NOW PRESENT ON THE NORTH SIDE OF THE EXCAVATION.



DATE:
12/16/14

FIG NO.:
8

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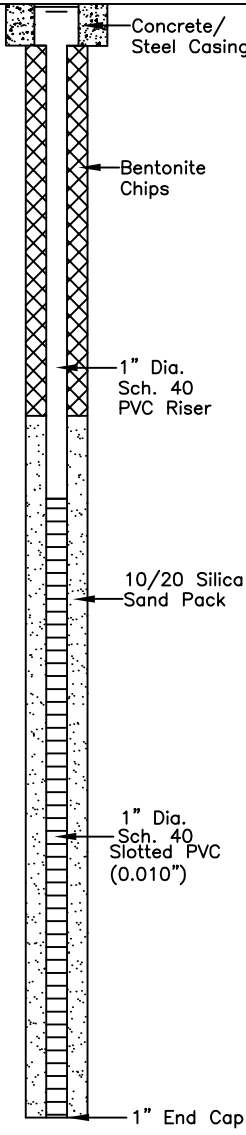
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ATTACHMENT A

Boring Logs and Monitoring Well Completion Diagrams

Boring Log/Well Completion Diagram: MW-01

PAGE 1 OF 1

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	(0-23') sandy clayey silty FILL - brown, loose, poorly sorted, fine to medium grained sand, soft clay, loost silt, dry to moist, N/O, N/S.	FL	GP	1	100	2.3	N/A		 <p>Concrete/ Steel Casing</p> <p>Bentonite Chips</p> <p>1" Dia. Sch. 40 PVC Riser</p> <p>10/20 Silica Sand Pack</p> <p>1" Dia. Sch. 40 Slotted PVC (0.010")</p> <p>1" End Cap</p>	H2O @22'
						5.0				
5			GP	2	100	43.5	N/A	5		
						130.4				
10			GP	3	100	181.6	N/A	10		
						139.0				
15			GP	4	100	155.9	N/A	15		
						287.3				
20			GP	5	100	14.9	N/A	20		
						11.0				
25	(23-27') gravelly SAND - brown and tan, loose, fine to coarse grained, well sorted with 20% coarse gravel, wet, N/O, N/S.	GP				4.4	N/A	25		FL - FILL HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
	BoB @ 27'									
30										

START/COMPLETION DATE: 10/15/2014

SAND PACK INTERVAL (FEET): 10-27

PROJECT: MOBILE PREMIX #2-35

BENTONITE/GROUT INTERVAL (FEET): 1-10

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 12-27

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 27

WELL DEPTH (FEET): 27

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1321/1420

SAMPLE COLLECTION DEPTH (FEET)/TIME: 17.5-20/1400

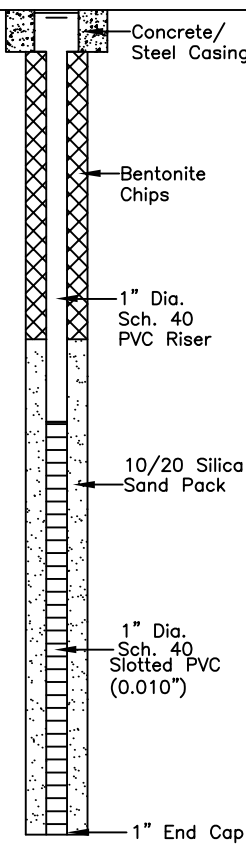


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Boring Log/Well Completion Diagram: MW-02

PAGE 1 OF 1

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	(0-7') sandy SILT - brown, loose, well sorted with 15% fine to medium grained sand, dry to moist, N/O, N/S.	ML	GP	1	100	0.9	N/A		 <p>Concrete/ Steel Casing</p> <p>Bentonite Chips</p> <p>1" Dia. Sch. 40 PVC Riser</p> <p>10/20 Silica Sand Pack</p> <p>1" Dia. Sch. 40 Slotted PVC (0.010")</p> <p>1" End Cap</p>	H2O @14.5'
						0.5				
5		GP	GP	2	100	1.1	N/A	5		
						2.2				
10	silty gravelly SAND - brown, loose, fine to coarse grained, well sorted with 20% gravel, trace silt, moist to wet, N/O, N/S.		GP	3	100	2.7	N/A	10		
						1.7				
15			GP	4	100	3.8	N/A	15		
						1.9				
20	BoB @ 20'							20		
25								25		
30								30		

START/COMPLETION DATE: 10/16/2014

SAND PACK INTERVAL (FEET): 8-20

PROJECT: MOBILE PREMIX #2-35

BENTONITE/GROUT INTERVAL (FEET): 1-8

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 10-20

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 20

WELL DEPTH (FEET): 20

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1110/1155

SAMPLE COLLECTION DEPTH (FEET)/TIME: 10-12.5/1140



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Boring Log/Well Completion Diagram: MW-03

PAGE 1 OF 1

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	(0-5') sandy SILT - brown, loose, well sorted with 15% fine to medium grained sand, dry to moist, N/O, N/S.	ML	GP	1	100	0.2	N/A			H2O @ 12'
						0.4				
5	(5-6.5') silty sandy CLAY - brown, soft, low plast., well sorted w/ 10% fine grained sand, trace silt, moist, N/O, N/S.	CL				0.3	N/A	5		
	(6.5-20') gravelly SAND - brown, loose, fine to coarse grained, well sorted with 20% gravel, moist to wet, N/O, N/S.		GP	2	100	3.5	N/A			
						1.0		10		
		GP				0.3	N/A			
			GP	3	100	0.6	N/A	15		
						0.1				
			GP	4	100		N/A			
20	BoB @ 20'							20		
25										HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
30										

START/COMPLETION DATE: 10/16/2014

SAND PACK INTERVAL (FEET): 6-18

PROJECT: MOBILE PREMIX #2-35

BENTONITE/GROUT INTERVAL (FEET): 1-6

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 8-18

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 20

WELL DEPTH (FEET): 18

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1015/1100

SAMPLE COLLECTION DEPTH (FEET)/TIME: 7.5-10/1040

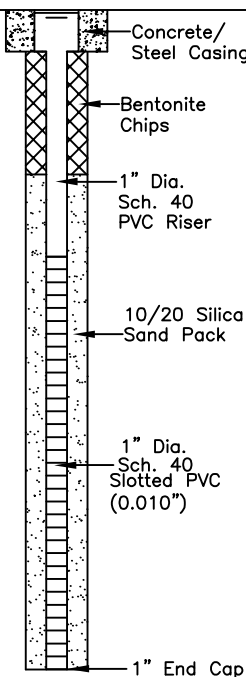


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Boring Log/Well Completion Diagram: MW-04

PAGE 1 OF 1

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	(0-4.5') sandy SILT - brown, loose, well sorted with 15% fine to medium grained sand, dry to moist, N/O, N/S.	ML	GP	1	100	0.0	N/A			H2O @10.5'
						0.0				
5	(4.5-6') silty SAND - brown, loose, fine to coarse grained, well sorted with 5% silt, moist, N/O, N/S.	SM						5		
	(6-20') gravelly SAND - brown, loose, fine to coarse grained, well sorted with 20% gravel/cobbles, moist to wet, N/O, N/S.		GP	2	100	0.3	N/A			
						18.8				
10	@11 Wet.		GP	3	100	1.5	N/A	10		
						1.9				
15						0.2	N/A	15		
			GP	4	100	0.1				
20	BoB @ 20'							20		
25								25		HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface
30								30		

START/COMPLETION DATE: 10/16/2014

SAND PACK INTERVAL (FEET): 4-16

PROJECT: MOBILE PREMIX #2-35

BENTONITE/GROUT INTERVAL (FEET): 1-4

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 6-16

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 20

WELL DEPTH (FEET): 16

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 0910/1010

SAMPLE COLLECTION DEPTH (FEET)/TIME: 7.5-10/0940

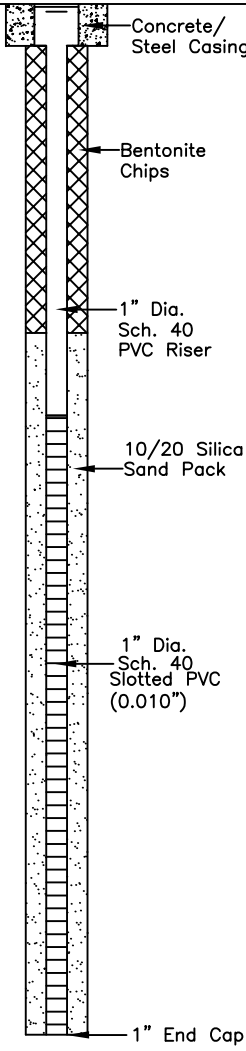


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Boring Log/Well Completion Diagram: MW-05

PAGE 1 OF 1

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	(0-3') sandy SILT - brown, loose, well sorted with 10-15% fine to medium grained sand, dry to moist, N/O, N/S.	ML	GP	1	100	3.9	N/A			H2O @20'
	(3-5') sandy CLAY - brown soft, low plasticity, well-sorted with ~10% fine-medium grained sand, moist, N/O, N/S.	CL				8.9				
5	(5-7') silty SAND - brown, loose, fine-coarse grained, well sorted with 5% silt, moist, N/O, N/S.	SM				14.7		5		
	(7-25') gravelly SAND - brown, loose, fine to coarse grained, well sorted with 20% gravel/cobbles, moist to wet, N/O, N/S.	GP	GP	2	85	13.1	N/A			
						13.0				
10			GP	3	80	13.5	N/A	10		
						7.9				
15			GP	4	60	7.5	N/A	15		
						4.2				
20			GP	5	60	2.2	N/A	20		
25	BoB @ 25'							25		
30										

START/COMPLETION DATE: 10/15/2014

SAND PACK INTERVAL (FEET): 8-25

PROJECT: MOBILE PREMIX #2-35

BENTONITE/GROUT INTERVAL (FEET): 1-8

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 10-25

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 25

WELL DEPTH (FEET): 25

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1215/1315

SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5/1240

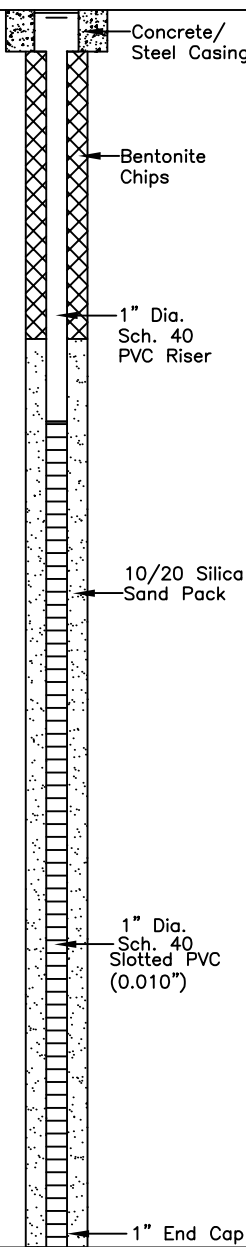


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Boring Log/Well Completion Diagram: MW-06

PAGE 1 OF 1

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	(0-3') sandy SILT - brown, loose, well sorted with 15-20% fine to medium grained sand, dry to moist, N/O, N/S.	ML	GP	1	100	6.2	N/A			<p>H2O @24.5'</p> <p>HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface</p>
5	(3-8') sandy CLAY - brown, soft, low plasticity, well sorted with 10% fine grained sand, trace organics, moist, N/O, N/S.	CL	GP	2	100	9.5	N/A			
10	(8-11') silty clayey SAND - brown, loose, fine-coarse grained, well sorted with 5% clay, trace silt, moist, N/O, N/S.	SC	GP	3	100	15.3	N/A			
15	(11-30') gravelly SAND - brown, loose, fine to coarse grained, well sorted with 20% gravel/cobbles, moist to wet, @17.5-30 N/O, N/S.	GP	GP	4	100	8.8	N/A			
	@15-17.5 slight odor					10.0	N/A			
						14.7	N/A			
						97.5	N/A			
						13.9	N/A			
20						11.4	N/A			
25	@24.5 Wet.					4.1	N/A			
30	BoB @ 30'	GP	GP	6	0	--	N/A			

START/COMPLETION DATE: 10/15/2014

SAND PACK INTERVAL (FEET): 8-30

PROJECT: MOBILE PREMIX #2-35

BENTONITE/GROUT INTERVAL (FEET): 1-8

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 10-30

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 30

WELL DEPTH (FEET): 30

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1045/1150

SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5/1240



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Boring Log/Well Completion Diagram: MW-07

PAGE 1 OF 1

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	(0-5') clayey sandy SILT - brown, loose, well sorted with 10% fine to medium grained sand and trace clay, dry to moist, N/O, N/S.	ML	GP	1	100	13.8	N/A			<p>H2O @ 25.5'</p> <p>HC - Hydrocarbon BoB - Bottom of Boring N/O - no odor N/S - no staining TOC - top of casing bgs - below ground surface</p>
						10.8				
5	(5-7') sandy CLAY - brown, soft, low plasticity, well sorted with 10% fine grained sand moist, N/O, N/S.	CL				22.1		5		
	(7-11') clayey SAND - brown, loose, fine to coarse grained, well sorted with 10% clay, moist, N/S.	SC	GP	2	90	36.7	N/A			
10	@10-17.5' slight odor					389.4		10		
	(11-30') gravelly SAND - brown, loose, fine to coarse grained, well sorted with 25% gravel/cobbles, moist to wet, @10-17.5 slight odor		GP	3	100	357.1	N/A			
15	@13-18' gray staining					131.2		15		
	@18-22' strong odor		GP	4	100	32.8	N/A			
20	@22' N/O and N/S.	GP				20.7		20		
			GP	5	100	8.2	N/A			
25	@25.5 Wet.					3.6		25		
			GP	6	10	--	N/A			
30	BoB @ 30'								1" End Cap	

START/COMPLETION DATE: 10/15/2014

SAND PACK INTERVAL (FEET): 8-30

PROJECT: MOBILE PREMIX #2-35

BENTONITE/GROUT INTERVAL (FEET): 1-8

LOGGED BY: A. NEWBERRY

WELL SCREEN INTERVAL (FEET): 10-30

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 30

WELL DEPTH (FEET): 30

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 0945/1040

SAMPLE COLLECTION DEPTH (FEET)/TIME: 10-12.5/1035

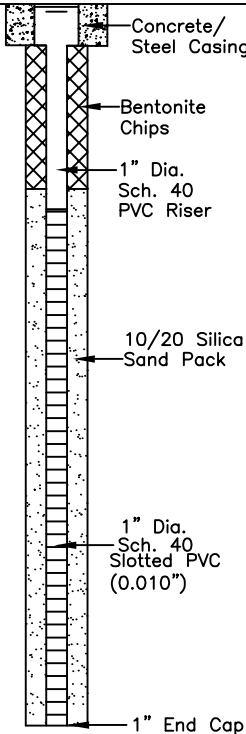


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Boring Log/Well Completion Diagram: MW-08

PAGE 1 OF 1

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	(0-5') silty SAND - brown and rusty brown, mod. loose, fine-medium grained, well-sorted with ~30% silt, slightly moist, N/O, N/S	SM	GP	1	100	0.0	N/A			H2O @27.5'
						0.0	N/A			
	(5-35') gravelly SAND - brown/pink, loose, fine-coarse grained, well-sorted with ~20% gravels/cobbles, slightly moist-wet, N/O, N/S		GP	2	90	0.0	N/A			
						1.8	N/A			
10			GP	3	100	36.0	N/A	10		
						29.9	N/A			
	@15 slight odor, some staining.		GP	4	100	13.0	N/A			
						1.9	N/A			
20	@18 Wet.		GP	5	0	--	N/A	20		
						--	N/A			
			GP	6	0	--	N/A			
						--	N/A			
30			GP	7	0	--	N/A	30		
						--	N/A			
	BoB @ 35'									
40								40		
50								50		
60								60		

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: 11/06/2014

SAND PACK INTERVAL (FEET): 9-35

PROJECT: MOBILE PREMIX #2-35

BENTONITE/GROUT INTERVAL (FEET): 1-9

LOGGED BY: E. PILAND

WELL SCREEN INTERVAL (FEET): 10-35

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 35

WELL DEPTH (FEET): 35

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1400/1500

SAMPLE COLLECTION DEPTH (FEET)/TIME: 12.5-15/1445

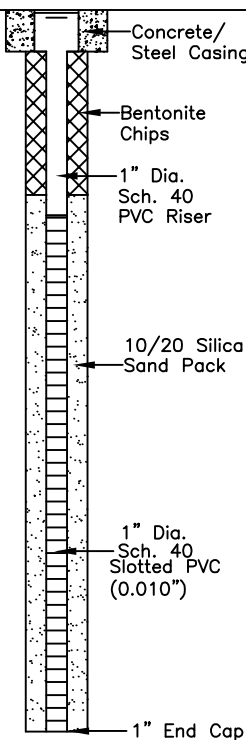



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Boring Log/Well Completion Diagram: MW-09

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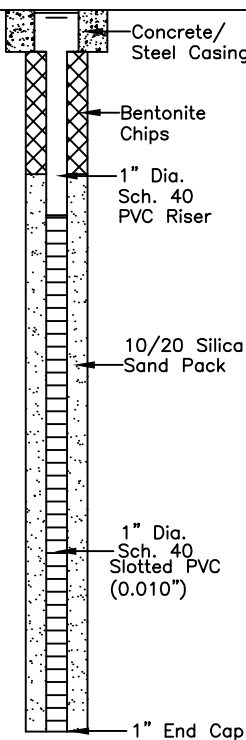
DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-4') sandy clayey SILT - brown, mod soft, well-sorted with clay and fine sand, slightly moist, N/O, N/S	ML	GP	1	100	0.0	N/A			H2O @29.5'
						0.0	N/A			
	(4-17') gravelly SAND - brown/pink, loose, fine-coarse grained, well-sorted with ~20% gravel/cobbles, moist, N/O, N/S.	GP	GP	2	90	0.0	N/A			
						0.0	N/A			
			GP	3	90	0.0	N/A			
						0.3	N/A			
	(17-35') SAND - brown/tan, fine to medium grained, some gravels, wet, N/O, N/S.	SP	GP	4	90	0.0	N/A			
						0.0	N/A			
			GP	5	60	0.0	N/A			
						0.0	N/A			
			GP	6	90	0.0	N/A			
						0.0	N/A			
	BoB @ 35'		GP	7	0	0.0	N/A			
						0.0	N/A			
40										
50										
60										

START/COMPLETION DATE: 11/06/2014		SAND PACK INTERVAL (FEET): 9–35	
PROJECT: MOBILE PREMIX #2–35		BENTONITE/GROUT INTERVAL (FEET): 1–9	
LOGGED BY: E. PILAND		WELL SCREEN INTERVAL (FEET): 10–35	
DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 35		WELL DEPTH (FEET): 35	
PID INSTRUMENT: MiniRAE 3000			
TIME STARTED/COMPLETED: 1240/1340			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 12.5–15/1330			
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HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

Boring Log/Well Completion Diagram: MW-10

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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	(0-4') sandy SILT - brown, mod. soft, well-sorted with ~15% fine sand, moist, N/O, N/S	ML	GP	1	100	0.0	N/A			H2O @30'
						0.0	N/A			
	(4-20') gravelly SAND - brown/pink, loose, fine-coarse grained, well-sorted with ~20% gravels/cobbles, moist, N/O, N/S.		GP	2	100	0.1	N/A			
						0.0	N/A			
10		GP	GP	3	90	0.0	N/A	10		
						0.0	N/A			
	(20-35') SAND - brown and tan, loose, fine grained, well sorted with trace gravel, wet.		GP	4	80	0.0	N/A			
						2.9	N/A			
20			GP	5	70	0.0	N/A	20		
						0.0	N/A			
	BoB @ 35'	SP	GP	6	80	0.0	N/A			
						0.0	N/A			
30			GP	7	80	1.4	N/A	30		
						0.8	N/A			
40								40		
50								50		
60								60		

START/COMPLETION DATE: 11/06/2014

SAND PACK INTERVAL (FEET): 8-35

PROJECT: MOBILE PREMIX #2-35

BENTONITE/GROUT INTERVAL (FEET): 1-8

LOGGED BY: E. PILAND

WELL SCREEN INTERVAL (FEET): 10-35

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 35

WELL DEPTH (FEET): 35

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 1050/1210

SAMPLE COLLECTION DEPTH (FEET)/TIME: 17.5-19.5/1145



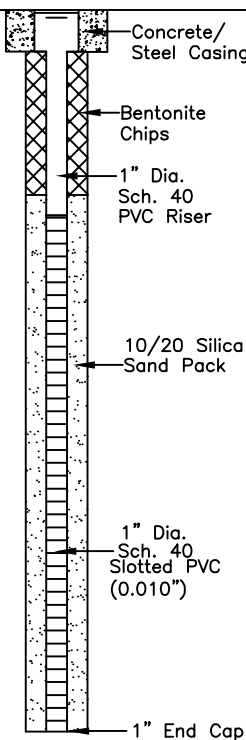
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HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

Boring Log/Well Completion Diagram: MW-11

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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	(0-8') clayey sandy SILT - brown, soft, loose to moderately loose, well-sorted with ~15% fine grained sand and trace clay, very moist, N/O, N/S.	ML	GP	1	100	0.0	N/A			H2O @29.5'
			GP	2	100	0.1	N/A			
10	(8-13') gravelly SAND - brown/pink, loose, fine-coarse grained, well-sorted with ~20% gravels/cobbles, very moist, N/O, N/S.	GP				0.0		10		
			GP	3	100	0.3	N/A			
20	(13-35') SAND - brown and tan, loose, fine-medium grained, well-sorted with trace gravel/cobbles, wet, N/O, N/S	SP				0.0		20		
			GP	4	100	0.0	N/A			
						0.0				
			GP	5	100	0.0	N/A			
						0.0				
			GP	6	90	0.0	N/A			
30						0.0		30		
			GP	7	90	0.0	N/A			
						0.0				
40	BoB @ 35'							40		
50								50		
60								60		

START/COMPLETION DATE: 11/06/2014

SAND PACK INTERVAL (FEET): 9-35

PROJECT: MOBILE PREMIX #2-35

BENTONITE/GROUT INTERVAL (FEET): 1-9

LOGGED BY: E. PILAND

WELL SCREEN INTERVAL (FEET): 10-35

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 35

WELL DEPTH (FEET): 35

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 0945/1045

SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5/1030



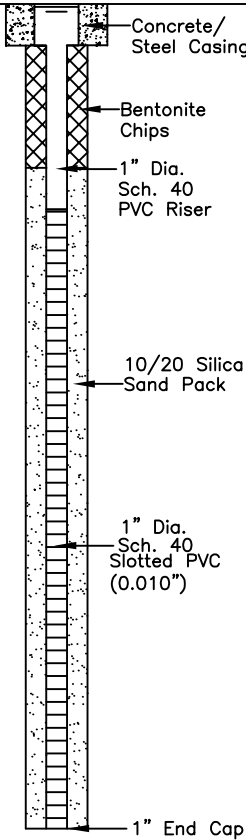
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HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

Boring Log/Well Completion Diagram: MW-12

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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	(0-8') sandy SILT - brown, soft, loose, well-sorted ~15% fine grained sands, very moist, N/O, N/S.	ML	GP	1	100	0.0	N/A			H2O @ 13'
						0.0				
5		GP	2	100		0.0	N/A			
						0.1				
10	(8-15') clayey silty SAND - brown/pink, loose, fine-medium grained, well-sorted with ~10% silt and trace clay and gravels, very moist, N/O, N/S.	SM SC	GP	3	100	0.0	N/A			
						0.0				
15	(15-20') SAND - brown and tan, loose, fine-coarse grained, well-sorted with some gravels/cobbles, wet, N/O, N/S.	SP	GP	4	100	0.0	N/A			
						0.0				
20	BoB @ 20'									
25										
30										

START/COMPLETION DATE: 11/06/2014

SAND PACK INTERVAL (FEET): 4-20

PROJECT: MOBILE PREMIX #2-35

BENTONITE/GROUT INTERVAL (FEET): 1-4

LOGGED BY: E. PILAND

WELL SCREEN INTERVAL (FEET): 5-20

DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE

WELL DIAMETER (INCHES): 1

BORING DEPTH (FEET): 20

WELL DEPTH (FEET): 20

PID INSTRUMENT: MiniRAE 3000

TIME STARTED/COMPLETED: 0845/0945

SAMPLE COLLECTION DEPTH (FEET)/TIME: 5-7.5/0930



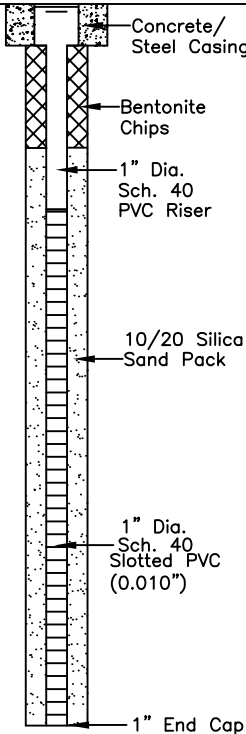
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HC - Hydrocarbon
BoB - Bottom of Boring
N/O - no odor
N/S - no staining
TOC - top of casing
bgs - below ground surface

Boring Log/Well Completion Diagram: MW-13

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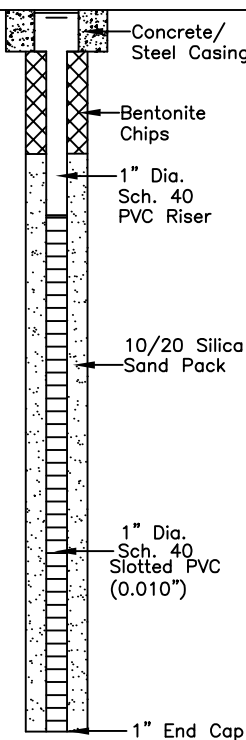
DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-5') sandy clayey SILT - brown, mod soft, well-sorted with clay and fine sand, slightly moist, N/O, N/S	ML	GP	1	90	1.7	N/A			H2O @25.5'
						0.5				
	(5-17.5') gravelly SAND - brown/pink, loose, fine-coarse grained, well-sorted with ~30% gravel/cobbles, moist, N/O, N/S.	GP	GP	2	90	2.9	N/A			
						1.2				
10			GP	3	95	2.2	N/A	10		
						1.8				
	(17-35') SAND - brown/tan, fine to medium grained, some gravels, moist - wet, N/O, N/S.	SP	GP	4	100	1.8	N/A			
						1.3				
20			GP	5	100	1.6	N/A	20		
						2.0				
			GP	6	100	1.8	N/A			
						1.4				
30			GP	7	100	1.1	N/A	30		
						0.7				
	BoB @ 35'									
40								40		
50								50		
60								60		

00


START/COMPLETION DATE: 12/15/2014		SAND PACK INTERVAL (FEET): 7–35	
PROJECT: MOBILE PREMIX #2–35		BENTONITE/GROUT INTERVAL (FEET): 1–7	
LOGGED BY: A. NEWBERRY		WELL SCREEN INTERVAL (FEET): 10–35	
DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 35	WELL DEPTH (FEET): 35		
PID INSTRUMENT: MiniRAE 3000			
TIME STARTED/COMPLETED: 1115 / 1230			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 5–7.5/1200			
<div><div><div>EAGLE</div><div>ENVIRONMENTAL CONSULTING, INC.</div><div>4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449</div></div></div>			

Boring Log/Well Completion Diagram: MW-14

PAGE 1 OF 1

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	(0-2.5') sandy SILT - brown, loose, soft, well-sorted with ~15% fine sand, dry, N/O, N/S	ML	GP	1	95	1.5	N/A		 <p>Concrete/ Steel Casing</p> <p>Bentonite Chips</p> <p>1" Dia. Sch. 40 PVC Riser</p> <p>10/20 Silica Sand Pack</p> <p>1" Dia. Sch. 40 Slotted PVC (0.010")</p> <p>1" End Cap</p>	H2O @25.5'
	(2.5-20') gravelly SAND - brown/pink, loose, fine-coarse grained, well-sorted with ~30% gravel/cobbles, moist, N/O, N/S.	GP	GP	2	100	1.8	N/A			
						2.4				
						2.6	N/A			
						2.3	N/A			
						2.0				
10	(20-35') SAND - brown/tan, fine to medium grained, some gravels, moist - wet, N/O, N/S.	GP	GP	3	95	2.2	N/A			
						2.2				
						0.2	N/A			
						0.7				
						0.1	N/A			
	BoB @ 35'	GP	GP	6	80	0.0				
						0.2	N/A			
						0.1				
20		GP	GP	7	100	0.2	N/A			
						0.1				
30										
40										
50										
60										

00

START/COMPLETION DATE: 12/15/2014		SAND PACK INTERVAL (FEET): 7–35	
PROJECT: MOBILE PREMIX #2–35		BENTONITE/GROUT INTERVAL (FEET): 1–7	
LOGGED BY: A. NEWBERRY		WELL SCREEN INTERVAL (FEET): 10–35	
DRILLING COMPANY/EQUIPMENT: EECI/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 35	WELL DEPTH (FEET): 35		
PID INSTRUMENT: MiniRAE 3000			
TIME STARTED/COMPLETED: 1240 / 1430			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 7.5–10/1315			
<div><div><div>EAGLE</div><div>ENVIRONMENTAL CONSULTING, INC.</div><div>4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449</div></div></div>			

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

ATTACHMENT B

Laboratory Analytical Reports



December 16, 2014

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Mobile Premix #2-35

Project Number - [none]

Attached are your analytical results for Noble - Mobile Premix #2-35 received by Origins Laboratory, Inc. December 15, 2014. This project is associated with Origins project number X412215-01.

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 - Mobile Premix #2-35

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-13	X412215-01	Water	December 15, 2014 15:15	12/15/2014 17:18
MW-14	X412215-02	Water	December 15, 2014 15:45	12/15/2014 17:18

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.

Jen Pellegrini For Noelle Doyle Mathis, President

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

ORIGINS

LABORATORY, INC

Xmizzus

www.originslaboratory.com

page / of /

Client: Eagle Env Consulting, Inc.

Address: 4101 Ikea Street

Denver, CO 80211

Telephone Number: (303) 433-0479

Email Address: MCE30@eagle-env.com

Project Manager: Martin Eckert III

Project Name: Mobile Pesticide 2-35

Project Number: —

Samples Collected By: A. Newberry

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other		
MW-13	12-15-14	1515	3	X	X			X				1	
MW-14	12-15-14	1545	3	X	X			X				2	
												3	
												4	
												5	
												6	
												7	
												8	
												9	
												10	
Relinquished By: <u>April Nally</u>	Date: <u>12-15-14</u>	Time: <u>1718</u>	Received By: <u>[Signature]</u>	Date: <u>12/18/14</u>	Time: <u>1718</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <u>5.2</u>							
Relinquished By:	Date:	Time:	Received By:	Date:	Time:								

Temp Received-

Date Results Needed At Nally

Origins Laboratory, Inc.

Jeff Pellgrini

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 - Mobile Premix #2-35

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X412215

Client: Eagle

Client Project ID: Mobile Premix #2-35

Checklist Completed by: Jeff Smith

Shipped Via: H/D

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

Date/time completed: 12/15/14

Airbill #: NA

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

Cooler Number/Temperature: 1 / 5.2 °C 1 / 5.2 °C 1 / 5.2 °C (Describe)

Thermometer ID: 1203

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

Date/Time Reviewed: 12-16-14

Origins Laboratory, Inc.

Jeff 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 - Mobile Premix #2-35

MW-13

12/15/2014 3:15:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

X412215-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	4L15015	12/15/2014	12/15/2014
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	98.2 %	87.3-113			"	"	"
Surrogate: Toluene-d8	101 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	88.6-111			"	"	"

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 - Mobile Premix #2-35

MW-14

12/15/2014 3:45:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

X412215-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	4L15015	12/15/2014	12/15/2014
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	105 %	87.3-113			"	"	"
Surrogate: Toluene-d8	98.3 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	108 %	88.6-111			"	"	"

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 - Mobile Premix #2-35

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 4L15015 - EPA 5030B (Water)**Blank (4L15015-BLK1)**

Prepared: 12/15/2014 Analyzed: 12/15/2014

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5	98.8	87.3-113				
Surrogate: Toluene-d8	63		"	62.5	100	90.9-108				
Surrogate: 4-Bromofluorobenzene	66		"	62.5	105	88.6-111				

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 - Mobile Premix #2-35

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 4L15015 - EPA 5030B (Water)**LCS (4L15015-BS1)**

Prepared: 12/15/2014 Analyzed: 12/15/2014

Benzene	51.9	1.0	ug/L	50.0	104	75-126
Toluene	52.8	1.0	"	50.0	106	78.7-126
Ethylbenzene	54.7	1.0	"	50.0	109	80-130
m,p-Xylene	108	2.0	"	100	108	77.2-133
o-Xylene	56.5	1.0	"	50.0	113	77.9-126
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5	97.4	87.3-113
Surrogate: Toluene-d8	63		"	62.5	101	90.9-108
Surrogate: 4-Bromofluorobenzene	63		"	62.5	100	88.6-111

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 - Mobile Premix #2-35

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 4L15015 - EPA 5030B (Water)

Matrix Spike (4L15015-MS1)		Source: X412215-01			Prepared: 12/15/2014 Analyzed: 12/15/2014					
Benzene	41.4	1.0	ug/L	50.0	ND	82.9	74-130			
Toluene	40.8	1.0	"	50.0	0.1	81.4	73-131			
Ethylbenzene	40.7	1.0	"	50.0	ND	81.4	76-132			
m,p-Xylene	79.4	2.0	"	100	0.7	78.7	69-139			
o-Xylene	43.2	1.0	"	50.0	ND	86.4	74-131			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	87.3-113			
Surrogate: Toluene-d8	62		"	62.5		98.7	90.9-108			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	88.6-111			

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 - Mobile Premix #2-35

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 4L15015 - EPA 5030B (Water)

Matrix Spike Dup (4L15015-MSD1)	Source: X412215-01				Prepared: 12/15/2014 Analyzed: 12/15/2014				QM-07	
Benzene	21.4	1.0	ug/L	50.0	ND	42.7	74-130	63.9	20	
Toluene	20.1	1.0	"	50.0	0.1	40.0	73-131	68.0	20	
Ethylbenzene	18.5	1.0	"	50.0	ND	36.9	76-132	75.1	20	
m,p-Xylene	35.8	2.0	"	100	0.7	35.1	69-139	75.7	20	
o-Xylene	19.9	1.0	"	50.0	ND	39.7	74-131	74.0	20	
Surrogate: 1,2-Dichloroethane-d4	75		"	62.5		121	87.3-113			
Surrogate: Toluene-d8	60		"	62.5		96.5	90.9-108			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	88.6-111			

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 - Mobile Premix #2-35

Notes and Definitions

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



December 16, 2014

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Mobile Premix #2-35

Project Number - [none]

Attached are your analytical results for Noble - Mobile Premix #2-35 received by Origins Laboratory, Inc. December 15, 2014. This project is associated with Origins project number X412214-01.

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 - Mobile Premix #2-35

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-13 @ 5-7.5'	X412214-01	Soil	December 15, 2014 12:00	12/15/2014 17:18
MW-14 @ 7.5-10'	X412214-02	Soil	December 15, 2014 13:15	12/15/2014 17:18

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: Noble - Mobile Premix #2-35

www.originslaboratory.com

12/14

page 1 of 1

ORIGINS
LABORATORY, INC

Client: Eagle Env. Consulting, Inc.
Address: 4101 Inca Street
Denver, CO, 80211
Telephone Number: (303) 433-0449
Email Address: Mike.C@eagle-env.com

Project Manager: Martin Eckert III
Project Name: Mobile Premix #2-35
Project Number: -
Samples Collected By: A. Mathis

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	GC-MS	GC-MS	GC-MS		GC-MS	
MW-13 @ 5-7.5'	12-15-14	1200	2	X					X				X	X	X	X	1
MW-14 @ 7.5-10'	12-15-14	1315	2	X					X				X	X	X	X	2
																	3
																	4
																	5
																	6
																	7
																	8
																	9
																	10

Relinquished By: *A. Mathis* Date: 12-15-14 Time: 1718
Relinquished By: *A. Mathis* Date: 12-15-14 Time: 1718

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

Date Results Needed: 12/15/14

Temp Received:

Hold sample to PAHs - FTD

Origins Laboratory, Inc.

Jen 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 - Mobile Premix #2-35

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X412214

Client: Eagle

Client Project ID: Mobile #2-35

Checklist Completed by: Jeff Smith

Shipped Via: H/D

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

Date/time completed: 12/15/14

Airbill #: NA

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

Cooler Number/Temperature: 1 5.2 °C 1 °C 1 °C (Describe)

Thermometer ID: T003

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

12-16-14
Date/Time Reviewed

Origins Laboratory, Inc.

Jeff 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 - Mobile Premix #2-35

MW-13 @ 5-7.5'
12/15/2014 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X412214-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4L15007	12/15/2014	12/15/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	102 %	59-131			"	"	"
------------------------	-------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	4L15006	12/15/2014	12/15/2014
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Naphthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130			"	"	"
Surrogate: Toluene-d8	100 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	112 %	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 - Mobile Premix #2-35

MW-14 @ 7.5-10'
12/15/2014 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X412214-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4L15007	12/15/2014	12/15/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	88.0 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	4L15006	12/15/2014	12/15/2014
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Naphthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	99.7 %	70-130			"	"	"
Surrogate: Toluene-d8	98.3 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	107 %	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 - Mobile Premix #2-35

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 4L15006 - EPA 5030 (soil)

Blank (4L15006-BLK1)

Prepared: 12/15/2014 Analyzed: 12/15/2014

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Naphthalene	ND	0.008	"							
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		106	70-130			

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

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 4L15006 - EPA 5030 (soil)										
LCS (4L15006-BS1)					Prepared: 12/15/2014 Analyzed: 12/15/2014					
Benzene	0.104	0.002	mg/kg	0.100		104	70-130			
Toluene	0.105	0.002	"	0.100		105	70-130			
Ethylbenzene	0.109	0.002	"	0.100		109	70-130			
m,p-Xylene	0.208	0.004	"	0.200		104	70-130			
o-Xylene	0.112	0.002	"	0.100		112	70-130			
Naphthalene	0.103	0.008	"	0.100		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		98.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	70-130			

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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
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Batch 4L15006 - EPA 5030 (soil)

Matrix Spike (4L15006-MS1)		Source: X412175-01			Prepared: 12/15/2014 Analyzed: 12/15/2014					
Benzene	0.098	0.002	mg/kg	0.100	ND	98.4	70-130			
Toluene	0.100	0.002	"	0.100	ND	100	70-130			
Ethylbenzene	0.102	0.002	"	0.100	ND	102	70-130			
m,p-Xylene	0.194	0.004	"	0.200	0.001	96.3	70-130			
o-Xylene	0.106	0.002	"	0.100	ND	106	70-130			
Naphthalene	0.087	0.008	"	0.100	0.001	85.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	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: Noble - Mobile Premix #2-35

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 4L15006 - EPA 5030 (soil)										
Matrix Spike Dup (4L15006-MSD1)	Source: X412175-01				Prepared: 12/15/2014 Analyzed: 12/15/2014					
Benzene	0.088	0.002	mg/kg	0.100	ND	87.9	70-130	11.3	20	
Toluene	0.087	0.002	"	0.100	ND	87.2	70-130	13.6	20	
Ethylbenzene	0.088	0.002	"	0.100	ND	88.1	70-130	14.5	20	
m,p-Xylene	0.172	0.004	"	0.200	0.001	85.4	70-130	11.9	20	
o-Xylene	0.092	0.002	"	0.100	ND	92.2	70-130	13.6	20	
Naphthalene	0.082	0.008	"	0.100	0.001	81.3	70-130	5.37	20	
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	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: Noble - Mobile Premix #2-35

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 8015M - Quality Control
Origins Laboratory, Inc.

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

Batch 4L15007 - EPA 3580

Blank (4L15007-BLK1)

Prepared: 12/15/2014 Analyzed: 12/15/2014

Diesel (C10-C28) ND 50.0 mg/kg

Surrogate: o-Terphenyl 48 g 50.0 96.1 59-131

LCS (4L15007-BS1)

Prepared: 12/15/2014 Analyzed: 12/15/2014

Diesel (C10-C28) 979 50.0 mg/kg 1000 97.9 64-121

Surrogate: o-Terphenyl 46 g 50.0 91.3 59-131

Matrix Spike (4L15007-MS1)

Source: X412176-01

Prepared: 12/15/2014 Analyzed: 12/15/2014

Diesel (C10-C28) 939 50.0 mg/kg 1000 18.0 92.1 53-125

Surrogate: o-Terphenyl 40 g 50.0 80.7 59-131

Matrix Spike Dup (4L15007-MSD1)

Source: X412176-01

Prepared: 12/15/2014 Analyzed: 12/15/2014

Diesel (C10-C28) 1010 50.0 mg/kg 1000 18.0 99.3 53-125 7.40 20

Surrogate: o-Terphenyl 45 g 50.0 90.4 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: Noble - Mobile Premix #2-35

Notes and Definitions

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.



November 13, 2014

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Mobile Premix #2-35

Project Number - [none]

Attached are your analytical results for Noble - Mobile Premix #2-35 received by Origins Laboratory, Inc. November 07, 2014. This project is associated with Origins project number X411080-01.

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 - Mobile Premix #2-35

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-08	X411080-01	Water	November 7, 2014 12:40	11/07/2014 17:35
MW-09	X411080-02	Water	November 7, 2014 12:50	11/07/2014 17:35
MW-10	X411080-03	Water	November 7, 2014 13:00	11/07/2014 17:35
MW-11	X411080-04	Water	November 7, 2014 13:10	11/07/2014 17:35
MW-12	X411080-05	Water	November 7, 2014 13:20	11/07/2014 17:35

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 - Mobile Premix #2-35

ORIGINS
LABORATORY, INC

www.originslaboratory.com

X411080

page ____ of ____

Client: Eagle Env Consulting Project Manager/Send Report To: Martin C Eckert III
Address: 4101 Inca St Email Address: mce@eagle-env.com
Denver, CO Project Name/Number: Noble Mobile Premix #2-35
Telephone Number: 303 433 0474 Samples Collected By: Emi Vane

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/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #		
MW-08	11-7-14	1240	3		X			X			BTEX	1
MW-09	11-7-14	1250	3		X			X				2
MW-10	11-7-14	1300	3		X			X				3
MW-11	11-7-14	1310	3		X			X				4
MW-12	11-7-14	1320	3		X			X				5
												6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>[Signature]</u>	11-7-14	1335	<u>[Signature]</u>	11/7/14	1735	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 4.7

Field Bottle Handled:

Comments:

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 - Mobile Premix #2-35

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X411080

Client: Eagle Env

Client Project ID: mobile pre-mix 2-35

Checklist Completed by: Jennifer Pellegrini

Shipped Via: #1D
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 11/10/14

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.7 °C / _____ °C / _____ °C (Describe)

Thermometer ID: T003

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

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

Reviewed by (Project Manager)

11/10/14
Date/Time Reviewed

Origins Laboratory, Inc.

Jen 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 - Mobile Premix #2-35

MW-08

11/7/2014 12:40:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

X411080-01 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	4K10007	11/10/2014	11/11/2014
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	102 %	87.3-113			"	"	"
Surrogate: Toluene-d8	99.2 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	98.8 %	88.6-111			"	"	"

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 - Mobile Premix #2-35

MW-09

11/7/2014 12:50:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

X411080-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	4K10007	11/10/2014	11/11/2014
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	102 %	87.3-113			"	"	"
Surrogate: Toluene-d8	99.5 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	98.4 %	88.6-111			"	"	"

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 - Mobile Premix #2-35

MW-10

11/7/2014 1:00:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

X411080-03 (Water)

BTEX by EPA 8260C

Benzene	71.8	1.0	ug/L	1	4K10007	11/10/2014	11/11/2014
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	10.1	1.0	"	"	"	"	"
Xylenes, total	4.9	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	105 %	87.3-113	"	"	"
Surrogate: Toluene-d8	98.3 %	90.9-108	"	"	"
Surrogate: 4-Bromofluorobenzene	97.9 %	88.6-111	"	"	"

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 - Mobile Premix #2-35

MW-11

11/7/2014 1:10:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

X411080-04 (Water)

BTEX by EPA 8260C

Benzene	1.6	1.0	ug/L	1	4K10007	11/10/2014	11/11/2014
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	104 %	87.3-113			"	"	"
Surrogate: Toluene-d8	98.4 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	98.7 %	88.6-111			"	"	"

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 - Mobile Premix #2-35

MW-12**11/7/2014 1:20:00PM**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.**X411080-05 (Water)****BTEX by EPA 8260C**

Benzene	ND	1.0	ug/L	1	4K10007	11/10/2014	11/11/2014
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4

103 % 87.3-113

"

"

"

Surrogate: Toluene-d8

98.6 % 90.9-108

"

"

"

Surrogate: 4-Bromofluorobenzene

99.3 % 88.6-111

"

"

"

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 - Mobile Premix #2-35

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
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Batch 4K10007 - EPA 5030B (Water)**Blank (4K10007-BLK1)**

Prepared: 11/10/2014 Analyzed: 11/11/2014

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5	97.0	87.3-113				
Surrogate: Toluene-d8	64		"	62.5	102	90.9-108				
Surrogate: 4-Bromofluorobenzene	64		"	62.5	102	88.6-111				

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 - Mobile Premix #2-35

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
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Batch 4K10007 - EPA 5030B (Water)**LCS (4K10007-BS1)**

Prepared: 11/10/2014 Analyzed: 11/11/2014

Benzene	49.1	1.0	ug/L	50.0		98.2	75-126			
Toluene	47.1	1.0	"	50.0		94.3	78.7-126			
Ethylbenzene	47.5	1.0	"	50.0		95.0	81-130			
m,p-Xylene	94.6	2.0	"	100		94.6	77.2-133			
o-Xylene	47.2	1.0	"	50.0		94.3	77.9-126			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.0	87.3-113			
Surrogate: Toluene-d8	61		"	62.5		98.1	90.9-108			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	88.6-111			

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 - Mobile Premix #2-35

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
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Batch 4K10007 - EPA 5030B (Water)

Matrix Spike (4K10007-MS1)		Source: X411071-01			Prepared: 11/10/2014 Analyzed: 11/11/2014					
Benzene	49.7	1.0	ug/L	50.0	ND	99.4	74-130			
Toluene	49.8	1.0	"	50.0	ND	99.6	73-131			
Ethylbenzene	50.8	1.0	"	50.0	ND	102	76-132			
m,p-Xylene	101	2.0	"	100	ND	101	69-139			
o-Xylene	50.4	1.0	"	50.0	ND	101	74-131			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.0	87.3-113			
Surrogate: Toluene-d8	62		"	62.5		99.8	90.9-108			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.5	88.6-111			

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 - Mobile Premix #2-35

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
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Batch 4K10007 - EPA 5030B (Water)

Matrix Spike Dup (4K10007-MSD1)		Source: X411071-01			Prepared: 11/10/2014 Analyzed: 11/11/2014					
Benzene	48.8	1.0	ug/L	50.0	ND	97.7	74-130	1.77	20	
Toluene	48.7	1.0	"	50.0	ND	97.4	73-131	2.17	20	
Ethylbenzene	49.4	1.0	"	50.0	ND	98.7	76-132	2.86	20	
m,p-Xylene	99.1	2.0	"	100	ND	99.1	69-139	2.01	20	
o-Xylene	49.9	1.0	"	50.0	ND	99.9	74-131	0.917	20	
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		93.9	87.3-113			
Surrogate: Toluene-d8	62		"	62.5		99.8	90.9-108			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	88.6-111			

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 - Mobile Premix #2-35

Notes and Definitions

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.



November 12, 2014

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Mobile Premix #2-35

Project Number - [none]

Attached are your analytical results for Noble - Mobile Premix #2-35 received by Origins Laboratory, Inc. November 07, 2014. This project is associated with Origins project number X411067-01.

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 - Mobile Premix #2-35

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-08 @ 12.5-15'	X411067-01	Soil	November 6, 2014 14:45	11/07/2014 11:27
MW-09 @ 12.5-15'	X411067-02	Soil	November 6, 2014 13:30	11/07/2014 11:27
MW-10 @ 17.5-19.5'	X411067-03	Soil	November 6, 2014 11:45	11/07/2014 11:27
MW-11 @ 5-7.5'	X411067-04	Soil	November 6, 2014 10:30	11/07/2014 11:27
MW-12 @ 5-7.5'	X411067-05	Soil	November 6, 2014 9:30	11/07/2014 11:27

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 - Mobile Premix #2-35

ORIGINS
LABORATORY, INC

www.originslaboratory.com

X411067

page 1 of 1

Eagle Environmental Consulting, Inc.
Client:

Address: 4101 Inca St.
Denver CO 80211

Telephone Number: 303-433-0479

Project Manager/Send Report To: Robin Lockwood

Email Address: rlockwood@eagle-enviro.com

Project Name/Number: Mobile Premix #2-35

Samples Collected By: EP

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
MW-08 @ 12.5-15'	11/16/14	1445	1	X				X			BTEX, TPH-Metals (2015) Napthalene (8260)	1
MW-09 @ 12.5-15'		1330	1									2
MW-10 @ 17.5-19.5'		1145	1									3
MW-11 @ 5-7.5'		1030	1									4
MW-12 @ 5-7.5'		0930	1									5
												6
												7
												8
												9
												10
Relinquished By: <i>ep</i>	Date: 11/7/14	Time: 1127		Received By: <i>Jeff</i>	Date: 11/7/14	Time: 1127		Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard <input type="checkbox"/>				
Relinquished By:	Date:	Time:		Received By:	Date:	Time:						

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

Origins Laboratory, Inc.

BM

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.

Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X411067

Client: Eagle

Client Project ID: Mobile Premix #2-35

Checklist Completed by: Jeff Smith

Shipped Via: H/D

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

Date/time completed: 11/7/14

Airbill #: NA

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

Cooler Number/Temperature: 1 / 0.8 °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.

Reviewed by: [Signature] (Project Manager)

11-10-14
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

MW-08 @ 12.5-15'
11/6/2014 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X411067-01 (Soil)

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

Diesel (C10-C28)	129	50.0	mg/kg	1	4K10005	11/10/2014	11/10/2014
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Surrogate: o-Terphenyl	102 %	59-131			"	"	"
------------------------	-------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	1.70	0.200	mg/kg	1	4K10006	11/10/2014	11/11/2014
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Naphthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	101 %	70-130			"	"	"
Surrogate: Toluene-d8	99.0 %	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 - Mobile Premix #2-35

MW-09 @ 12.5-15'
11/6/2014 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X411067-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4K10005	11/10/2014	11/10/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	85.1 %	59-131			"	"	"
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	4K10006	11/10/2014	11/11/2014
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Naphthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"
Surrogate: Toluene-d8	103 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	96.7 %	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 - Mobile Premix #2-35

MW-10 @ 17.5-19.5'
11/6/2014 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X411067-03 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4K10005	11/10/2014	11/10/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	85.2 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	4K10006	11/10/2014	11/11/2014
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Naphthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"
Surrogate: Toluene-d8	100 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.1 %	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 - Mobile Premix #2-35

MW-11 @ 5-7.5'

11/6/2014 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X411067-04 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4K10005	11/10/2014	11/10/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	106 %	59-131			"	"	"
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	4K10006	11/10/2014	11/11/2014
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Naphthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"
Surrogate: Toluene-d8	101 %	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 - Mobile Premix #2-35

MW-12 @ 5-7.5'

11/6/2014 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X411067-05 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4K10005	11/10/2014	11/10/2014
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Surrogate: o-Terphenyl	89.7 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	4K10006	11/10/2014	11/11/2014
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Naphthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"
Surrogate: Toluene-d8	102 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.1 %	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 - Mobile Premix #2-35

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 4K10006 - EPA 5030 (soil)										
Blank (4K10006-BLK1)					Prepared: 11/10/2014 Analyzed: 11/10/2014					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Naphthalene	ND	0.008	"							
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		100	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 - Mobile Premix #2-35

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 4K10006 - EPA 5030 (soil)										
LCS (4K10006-BS1)					Prepared: 11/10/2014 Analyzed: 11/10/2014					
Benzene	0.219	0.002	mg/kg	0.200		110	70-130			
Toluene	0.213	0.002	"	0.200		107	70-130			
Ethylbenzene	0.210	0.002	"	0.200		105	70-130			
m,p-Xylene	0.414	0.004	"	0.400		104	70-130			
o-Xylene	0.216	0.002	"	0.200		108	70-130			
Naphthalene	0.247	0.008	"	0.200		124	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		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 - Mobile Premix #2-35

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
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Batch 4K10006 - EPA 5030 (soil)

Matrix Spike (4K10006-MS1)		Source: X411073-03			Prepared: 11/10/2014 Analyzed: 11/10/2014			QM-07		
Benzene	0.203	0.002	mg/kg	0.200	ND	102	70-130			
Toluene	0.200	0.002	"	0.200	ND	100	70-130			
Ethylbenzene	0.191	0.002	"	0.200	0.002	94.6	70-130			
m,p-Xylene	0.378	0.004	"	0.400	ND	94.4	70-130			
o-Xylene	0.192	0.002	"	0.200	0.002	95.0	70-130			
Naphthalene	0.201	0.008	"	0.200	0.002	99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.9	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		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.

Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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
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Batch 4K10006 - EPA 5030 (soil)

Matrix Spike Dup (4K10006-MSD1)		Source: X411073-03			Prepared: 11/10/2014 Analyzed: 11/10/2014				QM-07	
Benzene	0.218	0.002	mg/kg	0.200	ND	109	70-130	6.74	20	
Toluene	0.208	0.002	"	0.200	ND	104	70-130	3.94	20	
Ethylbenzene	0.207	0.002	"	0.200	0.002	102	70-130	7.87	20	
m,p-Xylene	0.397	0.004	"	0.400	ND	99.2	70-130	4.94	20	
o-Xylene	0.204	0.002	"	0.200	0.002	101	70-130	6.13	20	
Naphthalene	0.192	0.008	"	0.200	0.002	95.1	70-130	4.56	20	
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		98.0	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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 8015M - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K10005 - EPA 3580

Blank (4K10005-BLK1)

Prepared: 11/10/2014 Analyzed: 11/10/2014

Diesel (C10-C28) ND 50.0 mg/kg

Surrogate: o-Terphenyl 52 g 50.0 104 59-131

LCS (4K10005-BS1)

Prepared: 11/10/2014 Analyzed: 11/10/2014

Diesel (C10-C28) 902 50.0 mg/kg 1000

90.2 64-121

Surrogate: o-Terphenyl 41 g 50.0 81.2 59-131

Matrix Spike (4K10005-MS1)

Source: X411073-03

Prepared: 11/10/2014 Analyzed: 11/10/2014

Diesel (C10-C28) 991 50.0 mg/kg 1000

63.3 92.8 53-125

Surrogate: o-Terphenyl 43 g 50.0 86.9 59-131

Matrix Spike Dup (4K10005-MSD1)

Source: X411073-03

Prepared: 11/10/2014 Analyzed: 11/10/2014

Diesel (C10-C28) 1100 50.0 mg/kg 1000

63.3 103 53-125 10.2 20

Surrogate: o-Terphenyl 48 g 50.0 96.9 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: Noble - Mobile Premix #2-35

Notes and Definitions

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.

Noelle Doyle Mathis, President



October 21, 2014

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Mobile Premix #2-35

Project Number - [none]

Attached are your analytical results for Noble - Mobile Premix #2-35 received by Origins Laboratory, Inc. October 20, 2014. This project is associated with Origins project number X410203-01.

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 - Mobile Premix #2-35

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	X410203-01	Water	October 20, 2014 12:59	10/20/2014 14:33
MW-02	X410203-02	Water	October 20, 2014 11:58	10/20/2014 14:33
MW-03	X410203-03	Water	October 20, 2014 11:40	10/20/2014 14:33
MW-04	X410203-04	Water	October 20, 2014 11:17	10/20/2014 14:33
MW-05	X410203-05	Water	October 20, 2014 10:55	10/20/2014 14:33
MW-06	X410203-06	Water	October 20, 2014 12:37	10/20/2014 14:33
MW-07	X410203-07	Water	October 20, 2014 12:19	10/20/2014 14:33

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 - Mobile Premix #2-35

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X410203

Client: Eagle
Client Project ID: Mobile Premix

Checklist Completed by: Jen Pellegrini

Shipped Via: H/D
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 10-20-14

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 18.2°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 ≤ 8°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>Sampled today</u>
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"/>			<u>HCL</u>
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.

Jen Pellegrini
Reviewed by (Project Manager)

10/20/14
Date/Time Reviewed

Origins Laboratory, Inc.

Jen 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 - Mobile Premix #2-35

MW-01

10/20/2014 12:59:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

X410203-01 (Water)

BTEX by EPA 8260C

Benzene	239	2.0	ug/L	2	4J20008	10/20/2014	10/21/2014
Toluene	ND	2.0	"	"	"	"	"
Ethylbenzene	84.5	2.0	"	"	"	"	"
Xylenes, total	591	2.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	104 %	87.3-113			"	"	"
Surrogate: Toluene-d8	102 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	97.4 %	88.6-111			"	"	"

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 - Mobile Premix #2-35

MW-02

10/20/2014 11:58:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

X410203-02 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	4J20008	10/20/2014	10/21/2014
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	105 %	87.3-113			"	"	"
Surrogate: Toluene-d8	98.3 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	97.5 %	88.6-111			"	"	"

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 - Mobile Premix #2-35

MW-03

10/20/2014 11:40:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

X410203-03 (Water)

BTEX by EPA 8260C

Benzene	ND	1.0	ug/L	1	4J20008	10/20/2014	10/21/2014
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	105 %	87.3-113			"	"	"
Surrogate: Toluene-d8	98.7 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	98.5 %	88.6-111			"	"	"

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 - Mobile Premix #2-35

MW-04**10/20/2014 11:17:00AM**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.**X410203-04 (Water)****BTEX by EPA 8260C**

Benzene	ND	1.0	ug/L	1	4J20008	10/20/2014	10/21/2014
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	107 %	87.3-113			"	"	"
Surrogate: Toluene-d8	98.4 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	96.8 %	88.6-111			"	"	"

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 - Mobile Premix #2-35

MW-05**10/20/2014 10:55:00AM**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.**X410203-05 (Water)****BTEX by EPA 8260C**

Benzene	ND	1.0	ug/L	1	4J20008	10/20/2014	10/21/2014
Toluene	ND	1.0	"	"	"	"	"
Ethylbenzene	ND	1.0	"	"	"	"	"
Xylenes, total	ND	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	105 %	87.3-113			"	"	"
Surrogate: Toluene-d8	98.1 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	96.8 %	88.6-111			"	"	"

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 - Mobile Premix #2-35

MW-06

10/20/2014 12:37:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.

X410203-06 (Water)

BTEX by EPA 8260C

Benzene	104	1.0	ug/L	1	4J20008	10/20/2014	10/21/2014
Toluene	4.4	1.0	"	"	"	"	"
Ethylbenzene	2.1	1.0	"	"	"	"	"
Xylenes, total	16.0	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4

107 % 87.3-113

"

"

"

Surrogate: Toluene-d8

100 % 90.9-108

"

"

"

Surrogate: 4-Bromofluorobenzene

98.2 % 88.6-111

"

"

"

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 - Mobile Premix #2-35

MW-07

10/20/2014 12:19:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X410203-07 (Water)

BTEX by EPA 8260C

Benzene	166	2.0	ug/L	2	4J20008	10/20/2014	10/21/2014
Toluene	6.0	2.0	"	"	"	"	"
Ethylbenzene	30.6	2.0	"	"	"	"	"
Xylenes, total	201	2.0	"	"	"	"	"
Surrogate: 1,2-Dichloroethane-d4	107 %	87.3-113			"	"	"
Surrogate: Toluene-d8	97.7 %	90.9-108			"	"	"
Surrogate: 4-Bromofluorobenzene	97.9 %	88.6-111			"	"	"

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 - Mobile Premix #2-35

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
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Batch 4J20008 - EPA 5030B (Water)

Blank (4J20008-BLK1)

Prepared: 10/20/2014 Analyzed: 10/21/2014

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	67		"	62.5	107		87.3-113			
Surrogate: Toluene-d8	63		"	62.5	100		90.9-108			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	97.6		88.6-111			

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 - Mobile Premix #2-35

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 4J20008 - EPA 5030B (Water)**LCS (4J20008-BS1)**

Prepared: 10/20/2014 Analyzed: 10/21/2014

Benzene	57.0	1.0	ug/L	50.0	114	75-126
Toluene	57.0	1.0	"	50.0	114	78.7-126
Ethylbenzene	59.1	1.0	"	50.0	118	81-130
m,p-Xylene	116	2.0	"	100	116	77.2-133
o-Xylene	58.8	1.0	"	50.0	118	77.9-126
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5	98.8	87.3-113
Surrogate: Toluene-d8	63		"	62.5	101	90.9-108
Surrogate: 4-Bromofluorobenzene	60		"	62.5	96.3	88.6-111

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 - Mobile Premix #2-35

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 4J20008 - EPA 5030B (Water)

Matrix Spike (4J20008-MS1)		Source: X410203-02			Prepared: 10/20/2014 Analyzed: 10/21/2014					
Benzene	58.0	1.0	ug/L	50.0	ND	116	74-130			
Toluene	54.5	1.0	"	50.0	ND	109	73-131			
Ethylbenzene	60.1	1.0	"	50.0	ND	120	76-132			
m,p-Xylene	116	2.0	"	100	ND	116	69-139			
o-Xylene	60.0	1.0	"	50.0	ND	120	74-131			
Surrogate: 1,2-Dichloroethane-d4	47		"	62.5		75.9	87.3-113			S-DUP
Surrogate: Toluene-d8	65		"	62.5		103	90.9-108			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	88.6-111			

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 - Mobile Premix #2-35

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 4J20008 - EPA 5030B (Water)

Matrix Spike Dup (4J20008-MSD1)		Source: X410203-02			Prepared: 10/20/2014 Analyzed: 10/21/2014					
Benzene	54.6	1.0	ug/L	50.0	ND	109	74-130	5.97	20	
Toluene	53.2	1.0	"	50.0	ND	106	73-131	2.47	20	
Ethylbenzene	57.3	1.0	"	50.0	ND	115	76-132	4.70	20	
m,p-Xylene	111	2.0	"	100	ND	111	69-139	4.04	20	
o-Xylene	56.8	1.0	"	50.0	ND	114	74-131	5.53	20	
Surrogate: 1,2-Dichloroethane-d4	49		"	62.5		78.6	87.3-113			S-DUP
Surrogate: Toluene-d8	64		"	62.5		102	90.9-108			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	88.6-111			

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 - Mobile Premix #2-35

Notes and Definitions

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

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



October 17, 2014

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Mobile Premix #2-35

Project Number - [none]

Attached are your analytical results for Noble - Mobile Premix #2-35 received by Origins Laboratory, Inc. October 16, 2014. This project is associated with Origins project number X410162-01.

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 - Mobile Premix #2-35

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01 @ 17.5-20'	X410162-01	Soil	October 15, 2014 14:00	10/16/2014 15:10
MW-02 @ 10-12.5'	X410162-02	Soil	October 16, 2014 11:40	10/16/2014 15:10
MW-03 @ 7.5-10'	X410162-03	Soil	October 16, 2014 10:40	10/16/2014 15:10
MW-04 @ 7.5-10'	X410162-04	Soil	October 16, 2014 9:40	10/16/2014 15:10
MW-05 @ 5-7.5'	X410162-05	Soil	October 15, 2014 12:40	10/16/2014 15:10
MW-06 @ 15-17.5'	X410162-06	Soil	October 15, 2014 11:30	10/16/2014 15:10
MW-07 @ 10-12.5'	X410162-07	Soil	October 15, 2014 10:35	10/16/2014 15:10

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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page 1 of 1

ORIGINS LABORATORY, INC

Client: Eagle Env Consulting, Inc. Project Manager/Send Report To: Martin Eckert III

Address: 4101 Inca Street Email Address: MCE3@eagle-env.com

Telephone Number: (303) 433-0479 Project Name/Number: Mobile Premix #2-35

Samples Collected By: A. Newbury

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Analysis/Method	Sample Instructions
MW-01 @ 17.5-20'	10-15-14	1400	2	Unpreserved	Soil	G, BTEX - 9260	1
MW-02 @ 10-12.5'	10-16-14	1140		Other		DRO - 8035	2
MW-03 @ 7.5-10'	10-16-14	1040		Groundwater		Naphthalene	3
MW-04 @ 7.5-10'	10-16-14	940		Other			4
MW-05 @ 5-7.5'	10-15-14	1240		HCl			5
MW-06 @ 15-17.5'	10-15-14	1130		HNO ₃			6
MW-07 @ 10-12.5'	10-15-14	1035		Unpreserved			7
							8
							9
							10
Relinquished By: <u>Aditya</u>	Date: <u>10-16-14</u>	Time: <u>1570</u>		Received By: <u>MD</u>	Date: <u>10/16/14</u>	Time: <u>1510</u>	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/> 1-6
Relinquished By:	Date:	Time:		Received By:	Date:	Time:	

Comments: 1211 ... 1 P Du...

Origins Laboratory, Inc.

[Signature]

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4101 Inca Street

Denver

CO

80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X410162

Client: Eagle

Client Project ID: Mobile Premix #2-35

Checklist Completed by: Jeff Smith

Shipped Via: H&D

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

Date/time completed: 10/16/14

Airbill #:

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

Cooler Number/Temperature: 1 / 4.6 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: 1003

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

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

R. Hutto
Reviewed by (Project Manager)

10/17/14 Ge: OCE
Date/Time Reviewed

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 - Mobile Premix #2-35

MW-01 @ 17.5-20'

10/15/2014 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

X410162-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4J16010	10/16/2014	10/16/2014
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Surrogate: o-Terphenyl	80.3 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4J16013	10/16/2014	10/16/2014
-----------------------------	----	------	-------	---	---------	------------	------------

Benzene	ND	0.002	"	"	"	"	"
---------	----	-------	---	---	---	---	---

Toluene	ND	0.002	"	"	"	"	"
---------	----	-------	---	---	---	---	---

Ethylbenzene	ND	0.002	"	"	"	"	"
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Xylenes, total	ND	0.002	"	"	"	"	"
----------------	----	-------	---	---	---	---	---

Napthalene	ND	0.008	"	"	"	"	"
------------	----	-------	---	---	---	---	---

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"
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Surrogate: Toluene-d8	96.5 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	99.4 %	70-130			"	"	"
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Origins Laboratory, Inc.



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Ross S Hutto For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

MW-02 @ 10-12.5'
10/16/2014 11:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X410162-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4J16010	10/16/2014	10/16/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	98.1 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4J16013	10/16/2014	10/16/2014
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Naphthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"
Surrogate: Toluene-d8	94.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.7 %	70-130			"	"	"

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4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

MW-03 @ 7.5-10'**10/16/2014 10:40:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.**X410162-03 (Soil)****Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	4J16010	10/16/2014	10/16/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	97.5 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4J16013	10/16/2014	10/16/2014
-----------------------------	----	------	-------	---	---------	------------	------------

Benzene	ND	0.002	"	"	"	"	"
---------	----	-------	---	---	---	---	---

Toluene	ND	0.002	"	"	"	"	"
---------	----	-------	---	---	---	---	---

Ethylbenzene	ND	0.002	"	"	"	"	"
--------------	----	-------	---	---	---	---	---

Xylenes, total	ND	0.002	"	"	"	"	"
----------------	----	-------	---	---	---	---	---

Naphthalene	ND	0.008	"	"	"	"	"
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Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"
----------------------------------	-------	--------	--	--	---	---	---

Surrogate: Toluene-d8	98.2 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	99.9 %	70-130			"	"	"
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Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

MW-04 @ 7.5-10'
10/16/2014 9:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X410162-04 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4J16010	10/16/2014	10/16/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	97.5 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4J16013	10/16/2014	10/16/2014
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Naphthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"
Surrogate: Toluene-d8	95.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.7 %	70-130			"	"	"

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Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

MW-05 @ 5-7.5'
10/15/2014 12:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X410162-05 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4J16010	10/16/2014	10/16/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	101 %	59-131			"	"	"
------------------------	-------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4J16013	10/16/2014	10/16/2014
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Napthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"
Surrogate: Toluene-d8	97.2 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"

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4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

MW-06 @ 15-17.5'
10/15/2014 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X410162-06 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4J16010	10/16/2014	10/16/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	98.5 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4J16013	10/16/2014	10/16/2014
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Naphthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"
Surrogate: Toluene-d8	96.4 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	96.7 %	70-130			"	"	"

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Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

MW-07 @ 10-12.5'
10/15/2014 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X410162-07 (Soil)

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

Diesel (C10-C28)	177	50.0	mg/kg	1	4J16010	10/16/2014	10/16/2014
------------------	-----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	109 %	59-131			"	"	"
------------------------	-------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4J16013	10/16/2014	10/16/2014
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	0.008	0.002	"	"	"	"	"
Naphthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"
Surrogate: Toluene-d8	95.7 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"

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4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

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 4J16013 - EPA 5030 (soil)

Blank (4J16013-BLK1)

Prepared: 10/16/2014 Analyzed: 10/16/2014

Gasoline Range Hydrocarbons	ND	0.20	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Naphthalene	ND	0.008	"							
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.0	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.3	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 - Mobile Premix #2-35

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 4J16013 - EPA 5030 (soil)										
LCS (4J16013-BS1)					Prepared: 10/16/2014 Analyzed: 10/16/2014					
Benzene	0.09	0.002	mg/kg	0.100		88.7	70-130			
Toluene	0.08	0.002	"	0.100		82.5	70-130			
Ethylbenzene	0.09	0.002	"	0.100		94.7	70-130			
m,p-Xylene	0.19	0.004	"	0.200		97.3	70-130			
o-Xylene	0.09	0.002	"	0.100		94.1	70-130			
Naphthalene	0.09	0.008	"	0.100		90.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	73		ug/kg	62.5		116	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	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 - Mobile Premix #2-35

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 4J16013 - EPA 5030 (soil)

Matrix Spike (4J16013-MS1)		Source: X410162-01			Prepared: 10/16/2014 Analyzed: 10/16/2014					
Benzene	0.10	0.002	mg/kg	0.100	ND	97.6	70-130			
Toluene	0.09	0.002	"	0.100	ND	89.3	70-130			
Ethylbenzene	0.10	0.002	"	0.100	ND	103	70-130			
m,p-Xylene	0.20	0.004	"	0.200	ND	98.8	70-130			
o-Xylene	0.10	0.002	"	0.100	ND	100	70-130			
Naphthalene	0.08	0.008	"	0.100	0.0007	84.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	71		ug/kg	62.5		113	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	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 - Mobile Premix #2-35

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 4J16013 - EPA 5030 (soil)										
Matrix Spike Dup (4J16013-MSD1)	Source: X410162-01				Prepared: 10/16/2014 Analyzed: 10/16/2014					
Benzene	0.09	0.002	mg/kg	0.100	ND	93.3	70-130	4.48	20	
Toluene	0.09	0.002	"	0.100	ND	85.9	70-130	3.86	20	
Ethylbenzene	0.10	0.002	"	0.100	ND	95.2	70-130	8.11	20	
m,p-Xylene	0.20	0.004	"	0.200	ND	99.1	70-130	0.323	20	
o-Xylene	0.10	0.002	"	0.100	ND	97.6	70-130	2.95	20	
Naphthalene	0.09	0.008	"	0.100	0.0007	90.7	70-130	7.70	20	
Surrogate: 1,2-Dichloroethane-d4	72		ug/kg	62.5		115	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.5	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 - Mobile Premix #2-35

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
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Extractable Petroleum Hydrocarbons by 8015M - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4J16010 - EPA 3580

Blank (4J16010-BLK1)

Prepared: 10/16/2014 Analyzed: 10/16/2014

Diesel (C10-C28) ND 50.0 mg/kg

Surrogate: o-Terphenyl 45 g 50.0 89.3 59-131

LCS (4J16010-BS1)

Prepared: 10/16/2014 Analyzed: 10/16/2014

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

Surrogate: o-Terphenyl 52 g 50.0 104 59-131

Matrix Spike (4J16010-MS1)

Source: X410135-01

Prepared: 10/16/2014 Analyzed: 10/16/2014

Diesel (C10-C28) 1040 50.0 mg/kg 1000 35.5 100 53-125

Surrogate: o-Terphenyl 53 g 50.0 105 59-131

Matrix Spike Dup (4J16010-MSD1)

Source: X410135-01

Prepared: 10/16/2014 Analyzed: 10/16/2014

Diesel (C10-C28) 1030 50.0 mg/kg 1000 35.5 99.8 53-125 0.246 20

Surrogate: o-Terphenyl 52 g 50.0 104 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: Noble - Mobile Premix #2-35

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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.

Ross S Hutto For Noelle Doyle Mathis, President



September 21, 2014

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Mobile Premix #2-35

Project Number - [none]

Attached are your analytical results for Noble - Mobile Premix #2-35 received by Origins Laboratory, Inc. September 19, 2014. This project is associated with Origins project number X409202-01.

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 - Mobile Premix #2-35

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-80 @ 17.5'	X409202-01	Soil	September 19, 2014 13:30	09/19/2014 16:36
SS-81 @ 17.5'	X409202-02	Soil	September 19, 2014 13:40	09/19/2014 16:36

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 - Mobile Premix #2-35

www.originslaboratory.com

page 1 of 1

ORIGINS
LABORATORY, INC

X469202

Client: Eagle Env Consulting, Inc. Project Manager/Send Report To: Martin Eckert III
Address: 4101 Inca Street Email Address: Mr. Martin Eckert III
Denver, CO 80211 Project Name/Number: Mobile Premix #235
Telephone Number: (303) 433-0479 Samples Collected By: Allenbury

Fax: 303.265.9645 Phone: 303.433.1322

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analytical Method	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Sampling			Other
55-80 @ 17.5'	9-19-14	1330	2	X				X				6,8161-8160 280-815 High Volume	1
55-81 @ 17.5'	9-19-14	1340	2	X				X					2
													3
													4
													5
													6
													7
													8
													9
													10

Requisitioned By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<i>[Signature]</i>	9-19-14	1638	<i>[Signature]</i>	9/19/14	1638	Some Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>

Date Results Needed: Mobile

Comments: Hold samples for PPHS - TRD

Origins Laboratory, Inc.

[Signature]

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

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y469202

Client: EAGLE

Client Project ID: MOBILE PREMIX #2-35

Checklist Completed by: MTJ

Shipped Via: HD

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

Date/time completed: 9/19 1646

Airbill #: 7002

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

Cooler Number/Temperature: 14.4 °C / °C / °C (Describe)

Thermometer ID: 7002

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾² ?	<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⁾² ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾² ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾² ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾² ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾² ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾² ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾² ?	<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"/>	Soil
Arc samples preserved that require preservation and was it checked ⁽¹⁾² ? (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, ZnAs+NaOH)			<input checked="" type="checkbox"/>	Soil
Additional Comments (if any):				

⁽¹⁾²If 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.

Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

SS-80 @ 17.5'

9/19/2014 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

X409202-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4118014	09/19/2014	09/19/2014
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Surrogate: o-Terphenyl	69.0 %	59-131			"	"	"
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4119015	09/19/2014	09/19/2014
-----------------------------	----	------	-------	---	---------	------------	------------

Benzene	0.002	0.002	"	"	"	"	"
---------	-------	-------	---	---	---	---	---

Toluene	ND	0.002	"	"	"	"	"
---------	----	-------	---	---	---	---	---

Ethylbenzene	ND	0.002	"	"	"	"	"
--------------	----	-------	---	---	---	---	---

Xylenes, total	ND	0.002	"	"	"	"	"
----------------	----	-------	---	---	---	---	---

Napthalene	ND	0.008	"	"	"	"	"
------------	----	-------	---	---	---	---	---

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"
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Surrogate: Toluene-d8	95.5 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	95.6 %	70-130			"	"	"
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

SS-81 @ 17.5'

9/19/2014 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X409202-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4118014	09/19/2014	09/19/2014
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Surrogate: o-Terphenyl	72.3 %	59-131			"	"	"
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4119015	09/19/2014	09/19/2014
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Napthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130			"	"	"
Surrogate: Toluene-d8	95.6 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	96.9 %	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 - Mobile Premix #2-35

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
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Batch 4I19015 - EPA 5030 (soil)

Blank (4I19015-BLK1)

Prepared: 09/19/2014 Analyzed: 09/19/2014

Gasoline Range Hydrocarbons	ND	0.20	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Naphthalene	ND	0.008	"							
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	70-130			

Origins Laboratory, Inc.



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

Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

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
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Batch 4I19015 - EPA 5030 (soil)

LCS (4I19015-BS1)

Prepared: 09/19/2014 Analyzed: 09/19/2014

Benzene	0.10	0.002	mg/kg	0.100		102	70-130			
Toluene	0.09	0.002	"	0.100		91.0	70-130			
Ethylbenzene	0.10	0.002	"	0.100		103	70-130			
m,p-Xylene	0.20	0.004	"	0.200		102	70-130			
o-Xylene	0.11	0.002	"	0.100		111	70-130			
Naphthalene	0.08	0.008	"	0.100		84.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	61		"	62.5		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		95.1	70-130			

Origins Laboratory, Inc.



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

Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

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
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Batch 4I19015 - EPA 5030 (soil)

LCS Dup (4I19015-BSD1)

Prepared: 09/19/2014 Analyzed: 09/19/2014

Benzene	0.10	0.002	mg/kg	0.100		100	70-130	1.23	20	
Toluene	0.09	0.002	"	0.100		89.3	70-130	1.89	20	
Ethylbenzene	0.10	0.002	"	0.100		99.8	70-130	2.71	20	
m,p-Xylene	0.20	0.004	"	0.200		99.6	70-130	2.74	20	
o-Xylene	0.11	0.002	"	0.100		108	70-130	3.27	20	
Naphthalene	0.09	0.008	"	0.100		88.9	70-130	4.93	20	
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.6	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 - Mobile Premix #2-35

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
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Extractable Petroleum Hydrocarbons by 8015M - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4I18014 - EPA 3580

Blank (4I18014-BLK1)

Prepared: 09/18/2014 Analyzed: 09/20/2014

Diesel (C10-C28) ND 50.0 mg/kg

Surrogate: o-Terphenyl 40 g 50.0 80.1 59-131

LCS (4I18014-BS1)

Prepared: 09/18/2014 Analyzed: 09/20/2014

Diesel (C10-C28) 988 50.0 mg/kg 1000 98.8 64-121

Surrogate: o-Terphenyl 39 g 50.0 78.7 59-131

Matrix Spike (4I18014-MS1)

Source: X409175-01

Prepared: 09/18/2014 Analyzed: 09/20/2014

Diesel (C10-C28) 986 50.0 mg/kg 1000 ND 98.6 53-125

Surrogate: o-Terphenyl 40 g 50.0 80.6 59-131

Matrix Spike Dup (4I18014-MSD1)

Source: X409175-01

Prepared: 09/18/2014 Analyzed: 09/20/2014

Diesel (C10-C28) 1020 50.0 mg/kg 1000 ND 102 53-125 3.21 20

Surrogate: o-Terphenyl 41 g 50.0 81.4 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: Noble - Mobile Premix #2-35

Notes and Definitions

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.



September 19, 2014

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Mobile Premix #2-35

Project Number - [none]

Attached are your analytical results for Noble - Mobile Premix #2-35 received by Origins Laboratory, Inc. September 18, 2014. This project is associated with Origins project number X409190-01.

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 - Mobile Premix #2-35

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-74 @ 17'	X409190-01	Soil	September 18, 2014 12:30	09/18/2014 16:27
SS-75 @ 17'	X409190-02	Soil	September 18, 2014 13:57	09/18/2014 16:27

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.

Ross S Hutto For Noelle Doyle Mathis, President

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

www.originslaboratory.com

page 1 of 1

ORIGINS
LABORATORY, INC.

Client: Engel Env. Consulting, Inc.
Address: 6401 14th St
Telephone Number: (303) 433-0479
Project Manager/Send Report To: Martin Eckert III
Email Address: mec3@engl-envi.com
Project Name/Number: Monte Vista #2-35
Samples Collected By: H. Newberry

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil		
SS-74 @ 17'	9-18-14	1230	2	X				X		G, BTEX-E260 DEQ-8015 Aspirator/Extr	1
SS-75 @ 17'	9-18-14	1357	2	X				X			2
											3
											4
											5
											6
											7
											8
											9
											10
Relinquished By: [Signature]	Date: 9-18-14	Time: 1407	Received By:	Date:	Time:	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>					
Relinquished By: [Signature]	Date:	Time:	Received By: [Signature]	Date: 9/18/14	Time: 1422						

Comments: *W* *A* *DAW* *FL*

Date Rec'd by Member:

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 - Mobile Premix #2-35

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X409190

Client: Eagle

Client Project ID: Mobile Premix #2-35

Checklist Completed by: Joe Smith

Shipped Via: H/D

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

Date/time completed: 9/16/14 1639

Airbill #: N/A

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

Cooler Number/Temperature: 1 3-3 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 7200

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 5°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analyses or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) pH < 2 for samples preserved with HNO ₃ , HCL 428041 / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed By (Project Manager)

9-18-14 1720
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 - Mobile Premix #2-35

SS-74 @ 17'

9/18/2014 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X409190-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4118008	09/18/2014	09/19/2014
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Surrogate: o-Terphenyl	76.0 %	59-131			"	"	"
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4118007	09/18/2014	09/18/2014
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Benzene	ND	0.002	"	"	"	"	"
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Toluene	ND	0.002	"	"	"	"	"
---------	----	-------	---	---	---	---	---

Ethylbenzene	ND	0.002	"	"	"	"	"
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Xylenes, total	ND	0.002	"	"	"	"	"
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Naphthalene	ND	0.008	"	"	"	"	"
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Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"
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Surrogate: Toluene-d8	96.7 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	98.9 %	70-130			"	"	"
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Origins Laboratory, Inc.



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

Ross S Hutto For Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

SS-75 @ 17'**9/18/2014 1:57:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X409190-02 (Soil)**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	4118008	09/18/2014	09/19/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	60.2 %	59-131			"	"	"
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4118007	09/18/2014	09/18/2014
-----------------------------	----	------	-------	---	---------	------------	------------

Benzene	ND	0.002	"	"	"	"	"
---------	----	-------	---	---	---	---	---

Toluene	ND	0.002	"	"	"	"	"
---------	----	-------	---	---	---	---	---

Ethylbenzene	ND	0.002	"	"	"	"	"
--------------	----	-------	---	---	---	---	---

Xylenes, total	ND	0.002	"	"	"	"	"
----------------	----	-------	---	---	---	---	---

Naphthalene	ND	0.008	"	"	"	"	"
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Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"
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Surrogate: Toluene-d8	97.3 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	96.2 %	70-130			"	"	"
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Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

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
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Batch 4118007 - EPA 5030 (soil)

Blank (4118007-BLK1)

Prepared: 09/18/2014 Analyzed: 09/18/2014

Gasoline Range Hydrocarbons	ND	0.20	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Naphthalene	ND	0.008	"							
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	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.

Ross S Hutto For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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 4118007 - EPA 5030 (soil)										
LCS (4118007-BS1)					Prepared: 09/18/2014 Analyzed: 09/18/2014					
Benzene	0.10	0.002	mg/kg	0.100		95.7	70-130			
Toluene	0.09	0.002	"	0.100		89.1	70-130			
Ethylbenzene	0.10	0.002	"	0.100		95.2	70-130			
m,p-Xylene	0.19	0.004	"	0.200		96.6	70-130			
o-Xylene	0.10	0.002	"	0.100		96.4	70-130			
Naphthalene	0.09	0.008	"	0.100		90.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.7	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.3	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 - Mobile Premix #2-35

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 4118007 - EPA 5030 (soil)										
Matrix Spike (4118007-MS1)		Source: X409172-01			Prepared: 09/18/2014 Analyzed: 09/18/2014					
Benzene	0.09	0.002	mg/kg	0.100	ND	85.4	70-130			
Toluene	0.08	0.002	"	0.100	0.001	79.2	70-130			
Ethylbenzene	0.09	0.002	"	0.100	ND	92.7	70-130			
m,p-Xylene	0.19	0.004	"	0.200	ND	94.7	70-130			
o-Xylene	0.10	0.002	"	0.100	ND	95.6	70-130			
Naphthalene	0.06	0.008	"	0.100	0.002	54.2	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		93.9	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	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 - Mobile Premix #2-35

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 4118007 - EPA 5030 (soil)										
Matrix Spike Dup (4118007-MSD1)	Source: X409172-01				Prepared: 09/18/2014 Analyzed: 09/18/2014					
Benzene	0.09	0.002	mg/kg	0.100	ND	85.7	70-130	0.374	20	
Toluene	0.08	0.002	"	0.100	0.001	74.2	70-130	6.41	20	
Ethylbenzene	0.08	0.002	"	0.100	ND	82.7	70-130	11.4	20	
m,p-Xylene	0.16	0.004	"	0.200	ND	80.8	70-130	15.8	20	
o-Xylene	0.09	0.002	"	0.100	ND	87.0	70-130	9.44	20	
Naphthalene	0.06	0.008	"	0.100	0.002	62.4	70-130	13.7	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.1	70-130			

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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
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Extractable Petroleum Hydrocarbons by 8015M - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4I18008 - EPA 3580

Blank (4I18008-BLK1)

Prepared: 09/18/2014 Analyzed: 09/18/2014

Diesel (C10-C28) ND 50.0 mg/kg

Surrogate: o-Terphenyl 41 g 50.0 81.8 59-131

LCS (4I18008-BS1)

Prepared: 09/18/2014 Analyzed: 09/18/2014

Diesel (C10-C28) 812 50.0 mg/kg 1000 81.2 64-121

Surrogate: o-Terphenyl 33 g 50.0 66.3 59-131

Matrix Spike (4I18008-MS1)

Source: X409172-01

Prepared: 09/18/2014 Analyzed: 09/18/2014

Diesel (C10-C28) 803 50.0 mg/kg 1000 ND 80.3 53-125

Surrogate: o-Terphenyl 33 g 50.0 66.7 59-131

Matrix Spike Dup (4I18008-MSD1)

Source: X409172-01

Prepared: 09/18/2014 Analyzed: 09/18/2014

Diesel (C10-C28) 795 50.0 mg/kg 1000 ND 79.5 53-125 0.980 20

Surrogate: o-Terphenyl 32 g 50.0 65.0 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: Noble - Mobile Premix #2-35

Notes and Definitions

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

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.

Ross S Hutto For Noelle Doyle Mathis, President



September 16, 2014

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Mobile Premix #2-35

Project Number - [none]

Attached are your analytical results for Noble - Mobile Premix #2-35 received by Origins Laboratory, Inc. September 16, 2014. This project is associated with Origins project number X409153-01.

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 - Mobile Premix #2-35

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-65 @ 17'	X409153-01	Soil	September 16, 2014 12:17	09/16/2014 15:49
SS-68 @ 16.5'	X409153-02	Soil	September 16, 2014 13:05	09/16/2014 15:49

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.

Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

www.originslaboratory.com

page 1 of 1

ORIGINS

LABORATORY, INC

X4091S3

Client: Eagle Env Consulting, Inc. Project Manager/Send Report To: Martin Eckert III
Address: 4101 Inca Street Email Address: DMC.30@eagle-enviro.com
Denver, CO, 80211 Project Name/Number: Mobile Premix #2-35
Telephone Number: (303) 433-0479 Samples Collected By: A. Newberg

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/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	As Summed & Certified		
SS-65 @ 17'	9-16-14	1217	2	X					X		G, BTEX - 8240 DEO - 8015 Naphthalene	1
SS-68 @ 16.5'	9-16-14	1305	2	X					X			2
												3 AM
												4
												5
												6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>[Signature]</u>	9-16-14	1549	<u>[Signature]</u>	9/16/14	1549	Some Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/> (2.1)

Date Results Needed: 9/16/14

Comments: Hold samples for PAHs - TBD

Origins Laboratory, Inc.

[Signature]

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X409153

Client: ES&S

Client Project ID: Mobile Premix #2-35

Checklist Completed by: Jaime Smith

Shipped Via: H/T

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

Date/time completed: 7/16/14 1554

Airbill #: N/A

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

☐ Water

☐ Other:

Cooler Number/Temperature: 1 / 12.1 °C 1 °C 1 °C (Describe)

Thermometer ID: RX12

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"/>		<u>Samples were dry</u>
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 RTs 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 rectify the additional comments (above) and the case narrative.

Reviewed By (Project Manager): [Signature]

7-16-14 1635
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

SS-65 @ 17'

9/16/2014 12:17:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X409153-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4116010	09/16/2014	09/16/2014
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Surrogate: o-Terphenyl	59.1 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4116009	09/16/2014	09/16/2014
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Benzene	ND	0.002	"	"	"	"	"
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Toluene	ND	0.002	"	"	"	"	"
---------	----	-------	---	---	---	---	---

Ethylbenzene	ND	0.002	"	"	"	"	"
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Xylenes, total	ND	0.002	"	"	"	"	"
----------------	----	-------	---	---	---	---	---

Naphthalene	ND	0.008	"	"	"	"	"
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Surrogate: 1,2-Dichloroethane-d4	120 %	70-130			"	"	"
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Surrogate: Toluene-d8	108 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

SS-68 @ 16.5'
9/16/2014 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X409153-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4116010	09/16/2014	09/16/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	73.3 %	59-131			"	"	"
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4116009	09/16/2014	09/16/2014
Benzene	0.005	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Napthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	122 %	70-130			"	"	"
Surrogate: Toluene-d8	107 %	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 - Mobile Premix #2-35

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
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Batch 4116009 - EPA 5030 (soil)

Blank (4116009-BLK1)

Prepared: 09/16/2014 Analyzed: 09/16/2014

Gasoline Range Hydrocarbons	ND	0.20	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Naphthalene	ND	0.008	"							
Surrogate: 1,2-Dichloroethane-d4	77		ug/kg	62.5		123	70-130			
Surrogate: Toluene-d8	68		"	62.5		108	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		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.

Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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 4116009 - EPA 5030 (soil)										
LCS (4116009-BS1)					Prepared: 09/16/2014 Analyzed: 09/16/2014					
Benzene	0.11	0.002	mg/kg	0.100		106	70-130			
Toluene	0.11	0.002	"	0.100		106	70-130			
Ethylbenzene	0.09	0.002	"	0.100		93.1	70-130			
m,p-Xylene	0.19	0.004	"	0.200		93.4	70-130			
o-Xylene	0.09	0.002	"	0.100		93.4	70-130			
Naphthalene	0.10	0.008	"	0.100		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	71		ug/kg	62.5		114	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	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.

Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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 4116009 - EPA 5030 (soil)										
LCS Dup (4116009-BSD1)					Prepared: 09/16/2014 Analyzed: 09/16/2014					
Benzene	0.09	0.002	mg/kg	0.100		91.0	70-130	15.1	20	
Toluene	0.09	0.002	"	0.100		91.7	70-130	14.8	20	
Ethylbenzene	0.08	0.002	"	0.100		78.2	70-130	17.5	20	
m,p-Xylene	0.16	0.004	"	0.200		78.5	70-130	17.3	20	
o-Xylene	0.08	0.002	"	0.100		79.6	70-130	15.9	20	
Naphthalene	0.08	0.008	"	0.100		84.2	70-130	16.0	20	
Surrogate: 1,2-Dichloroethane-d4	71		ug/kg	62.5		114	70-130			
Surrogate: Toluene-d8	65		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	66		"	62.5		106	70-130			

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4I16010 - EPA 3580

Blank (4I16010-BLK1)

Prepared: 09/16/2014 Analyzed: 09/16/2014

Diesel (C10-C28)	ND	50.0	mg/kg							
Surrogate: o-Terphenyl	30		g	50.0		59.2	59-131			

LCS (4I16010-BS1)

Prepared: 09/16/2014 Analyzed: 09/16/2014

Diesel (C10-C28)	818	50.0	mg/kg	1000		81.8	64-121			
Surrogate: o-Terphenyl	42		g	50.0		83.1	59-131			

LCS Dup (4I16010-BSD1)

Prepared: 09/16/2014 Analyzed: 09/16/2014

Diesel (C10-C28)	810	50.0	mg/kg	1000		81.0	64-121	1.07	20	
Surrogate: o-Terphenyl	41		g	50.0		82.4	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: Noble - Mobile Premix #2-35

Notes and Definitions

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.

Noelle Doyle Mathis, President



September 15, 2014

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Mobile Premix #2-35

Project Number - [none]

Attached are your analytical results for Noble - Mobile Premix #2-35 received by Origins Laboratory, Inc. September 15, 2014. This project is associated with Origins project number X409142-01.

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 - Mobile Premix #2-35

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-60 @ 16.5	X409142-01	Soil	September 15, 2014 12:35	09/15/2014 15:52

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 - Mobile Premix #2-35

www.originslaboratory.com

page 1 of 1

X409142

ORIGINS

LABORATORY, INC

Client: Eagle Env. Consulting, Inc. Project Manager/Send Report To: Martin Eckert III
Address: 4101 Inca Street Email Address: MCE.3@eagle-enviro.com
Denver, CO 80211 Project Name/Number: Mobile Premix #2-35
Telephone Number: (303) 433-0479 Samples Collected By: A. Newberry

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	As Surrogate		
55-60 @ 14.5'	9-15-14	1235	2	X				X			G, BTEX - 8260 DIO - 8015 Asphthalene	1
												2
												3
												4
												5
												6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>[Signature]</u>	9-15-14	1552	<u>[Signature]</u>	9-15-14	1552	Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/> 4.0

Date Results Needed: Noble

Comments: Hold samples for PAHs - TDD

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 - Mobile Premix #2-35

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X409142

Client: Eagle Env

Client Project ID: Mobile Premix

Checklist Completed by: Jen Pellegrini

Shipped Via: H/D

Date/Time completed: 9-15-14 1355

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

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.6 °C / °C / °C (Describe) °C

Thermometer ID: 1002

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 5°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)?	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄ / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager)

Date/Time Reviewed 9/15/14

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 - Mobile Premix #2-35

SS-60 @ 16.5

9/15/2014 12:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X409142-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4115011	09/15/2014	09/15/2014
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Surrogate: o-Terphenyl	68.7 %	59-131			"	"	"
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4115010	09/15/2014	09/15/2014
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Benzene	ND	0.002	"	"	"	"	"
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Toluene	ND	0.002	"	"	"	"	"
---------	----	-------	---	---	---	---	---

Ethylbenzene	ND	0.002	"	"	"	"	"
--------------	----	-------	---	---	---	---	---

Xylenes, total	ND	0.002	"	"	"	"	"
----------------	----	-------	---	---	---	---	---

Naphthalene	ND	0.008	"	"	"	"	"
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Surrogate: 1,2-Dichloroethane-d4	121 %	70-130			"	"	"
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Surrogate: Toluene-d8	107 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"
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Origins Laboratory, Inc.



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

Ross S Hutto For Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

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 4115010 - EPA 5030 (soil)

Blank (4115010-BLK1)

Prepared: 09/15/2014 Analyzed: 09/15/2014

Gasoline Range Hydrocarbons	ND	0.20	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Naphthalene	ND	0.008	"							
Surrogate: 1,2-Dichloroethane-d4	73		ug/kg	62.5		117	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		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 - Mobile Premix #2-35

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
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Batch 4115010 - EPA 5030 (soil)

LCS (4115010-BS1)

Prepared: 09/15/2014 Analyzed: 09/15/2014

Benzene	0.11	0.002	mg/kg	0.100		110	70-130			
Toluene	0.11	0.002	"	0.100		111	70-130			
Ethylbenzene	0.10	0.002	"	0.100		102	70-130			
m,p-Xylene	0.20	0.004	"	0.200		101	70-130			
o-Xylene	0.10	0.002	"	0.100		100	70-130			
Naphthalene	0.10	0.008	"	0.100		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

Origins Laboratory, Inc.



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Ross S Hutto For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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 4115010 - EPA 5030 (soil)										
Matrix Spike (4115010-MS1)		Source: X409135-01			Prepared: 09/15/2014 Analyzed: 09/15/2014					
Benzene	0.11	0.002	mg/kg	0.100	ND	110	70-130			
Toluene	0.11	0.002	"	0.100	ND	106	70-130			
Ethylbenzene	0.10	0.002	"	0.100	ND	98.0	70-130			
m,p-Xylene	0.20	0.004	"	0.200	ND	98.6	70-130			
o-Xylene	0.10	0.002	"	0.100	0.0005	96.2	70-130			
Naphthalene	0.09	0.008	"	0.100	0.005	82.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		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 - Mobile Premix #2-35

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 4115010 - EPA 5030 (soil)										
Matrix Spike Dup (4115010-MSD1)		Source: X409135-01			Prepared: 09/15/2014 Analyzed: 09/15/2014					
Benzene	0.11	0.002	mg/kg	0.100	ND	109	70-130	0.915	20	
Toluene	0.11	0.002	"	0.100	ND	107	70-130	1.01	20	
Ethylbenzene	0.10	0.002	"	0.100	ND	95.9	70-130	2.17	20	
m,p-Xylene	0.19	0.004	"	0.200	ND	96.3	70-130	2.31	20	
o-Xylene	0.09	0.002	"	0.100	0.0005	92.3	70-130	4.12	20	
Naphthalene	0.09	0.008	"	0.100	0.005	86.0	70-130	3.66	20	
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		110	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.1	70-130			

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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 8015M - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4I15011 - EPA 3580

Blank (4I15011-BLK1)

Prepared: 09/15/2014 Analyzed: 09/15/2014

Diesel (C10-C28) ND 50.0 mg/kg

Surrogate: o-Terphenyl 32 g 50.0 64.1 59-131

LCS (4I15011-BS1)

Prepared: 09/15/2014 Analyzed: 09/15/2014

Diesel (C10-C28) 735 50.0 mg/kg 1000 73.5 64-121

Surrogate: o-Terphenyl 38 g 50.0 76.0 59-131

Matrix Spike (4I15011-MS1)

Source: X409135-01

Prepared: 09/15/2014 Analyzed: 09/15/2014

Diesel (C10-C28) 647 50.0 mg/kg 1000 20.5 62.7 53-125

Surrogate: o-Terphenyl 58 g 50.0 116 59-131

Matrix Spike Dup (4I15011-MSD1)

Source: X409135-01

Prepared: 09/15/2014 Analyzed: 09/15/2014

Diesel (C10-C28) 627 50.0 mg/kg 1000 20.5 60.7 53-125 3.14 20

Surrogate: o-Terphenyl 30 g 50.0 60.6 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: Noble - Mobile Premix #2-35

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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.

Ross S Hutto For Noelle Doyle Mathis, President



September 06, 2014

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Mobile Premix #2-35

Project Number - [none]

Attached are your analytical results for Noble - Mobile Premix #2-35 received by Origins Laboratory, Inc. September 05, 2014. This project is associated with Origins project number X409059-01.

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 - Mobile Premix #2-35

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-48 @ 17'	X409059-01	Soil	September 5, 2014 14:15	09/05/2014 16:27

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 - Mobile Premix #2-35

ORIGINS

LABORATORY, INC

www.originslaboratory.com

X409059

page 1 of 1

Client: Eagle Env. Consulting, Inc. Project Manager/Send Report To: Martin Eckert III
Address: 4101 Inca Street Email Address: MCE3@eagle-env.com
Denver, CO, 80211 Project Name/Number: Mobile Premix #2-35
Telephone Number: (303) 433-0429 Samples Collected By: A. Newberry

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air		
SS-480171	9-5-14	1415	2	X					X		G, BTX - 8260 DRO - 8015 Naphthalene	1
												2
												3
												4
												5
												6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>[Signature]</u>	9-5-14	1627	<u>[Signature]</u>	9/5/14	1627	Some Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/> 5-7

Date Results Needed: 9/5/14

Comments: Hold samples for PAHs - TSD

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 - Mobile Premix #2-35

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X409059

Client: Eagle

Client Project ID: Noble - Mobile Premix #2-35

Checklist Completed by: John Smith

Shipped Via: Hand

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

Date/time completed: 9/5/14 1630

Airbill #: N/A

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

Cooler Number/Temperature: 15.4 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: 1000

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 ensure 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 be taken in the additional comments (above) and the case narrative.

Reviewed by: [Signature] (Project Manager)

9-5-14 1640
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 - Mobile Premix #2-35

SS-48 @ 17'
9/5/2014 2:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X409059-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4105008	09/05/2014	09/06/2014
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Surrogate: o-Terphenyl	60.9 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	0.91	0.20	mg/kg	1	4105007	09/05/2014	09/05/2014
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Napthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"
Surrogate: Toluene-d8	104 %	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 - Mobile Premix #2-35

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 4105007 - EPA 5030 (soil)

Blank (4105007-BLK1)

Prepared: 09/05/2014 Analyzed: 09/05/2014

Gasoline Range Hydrocarbons	ND	0.20	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Naphthalene	ND	0.008	"							
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	70-130			

Origins Laboratory, Inc.



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Ross S Hutto For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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 4105007 - EPA 5030 (soil)										
LCS (4105007-BS1)					Prepared: 09/05/2014 Analyzed: 09/05/2014					
Benzene	0.09	0.002	mg/kg	0.100		94.2	70-130			
Toluene	0.09	0.002	"	0.100		87.9	70-130			
Ethylbenzene	0.09	0.002	"	0.100		89.5	70-130			
m,p-Xylene	0.19	0.004	"	0.200		92.5	70-130			
o-Xylene	0.09	0.002	"	0.100		92.1	70-130			
Naphthalene	0.08	0.008	"	0.100		82.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.2	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 - Mobile Premix #2-35

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 4105007 - EPA 5030 (soil)

Matrix Spike (4105007-MS1)		Source: X409027-01			Prepared: 09/05/2014 Analyzed: 09/05/2014					
Benzene	0.10	0.002	mg/kg	0.100	ND	97.2	70-130			
Toluene	0.09	0.002	"	0.100	0.002	89.5	70-130			
Ethylbenzene	0.09	0.002	"	0.100	ND	91.0	70-130			
m,p-Xylene	0.18	0.004	"	0.200	ND	92.2	70-130			
o-Xylene	0.09	0.002	"	0.100	ND	93.1	70-130			
Naphthalene	0.08	0.008	"	0.100	0.0006	76.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.1	70-130			

Origins Laboratory, Inc.



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Ross S Hutto For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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 4105007 - EPA 5030 (soil)										
Matrix Spike Dup (4105007-MSD1)		Source: X409027-01			Prepared: 09/05/2014 Analyzed: 09/05/2014					
Benzene	0.09	0.002	mg/kg	0.100	ND	89.5	70-130	8.24	20	
Toluene	0.09	0.002	"	0.100	0.002	83.8	70-130	6.43	20	
Ethylbenzene	0.09	0.002	"	0.100	ND	85.5	70-130	6.26	20	
m,p-Xylene	0.17	0.004	"	0.200	ND	85.4	70-130	7.59	20	
o-Xylene	0.09	0.002	"	0.100	ND	89.1	70-130	4.46	20	
Naphthalene	0.07	0.008	"	0.100	0.0006	68.5	70-130	11.0	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	59		"	62.5		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	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.

Ross S Hutto For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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
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Extractable Petroleum Hydrocarbons by 8015M - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4I05008 - EPA 3580

Blank (4I05008-BLK1)

Prepared: 09/05/2014 Analyzed: 09/05/2014

Diesel (C10-C28) ND 50.0 mg/kg

Surrogate: o-Terphenyl 31 g 50.0 62.5 59-131

LCS (4I05008-BS1)

Prepared: 09/05/2014 Analyzed: 09/05/2014

Diesel (C10-C28) 906 50.0 mg/kg 1000 90.6 64-121

Surrogate: o-Terphenyl 42 g 50.0 84.0 59-131

Matrix Spike (4I05008-MS1)

Source: X409027-01

Prepared: 09/05/2014 Analyzed: 09/05/2014

Diesel (C10-C28) 944 50.0 mg/kg 1000 36.8 90.7 53-125

Surrogate: o-Terphenyl 42 g 50.0 84.3 59-131

Matrix Spike Dup (4I05008-MSD1)

Source: X409027-01

Prepared: 09/05/2014 Analyzed: 09/05/2014

Diesel (C10-C28) 759 50.0 mg/kg 1000 36.8 72.3 53-125 21.6 20 QM-07

Surrogate: o-Terphenyl 32 g 50.0 63.7 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: Noble - Mobile Premix #2-35

Notes and Definitions

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

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.

Ross S Hutto For Noelle Doyle Mathis, President



September 05, 2014

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Mobile Premix #2-35

Project Number - [none]

Attached are your analytical results for Noble - Mobile Premix #2-35 received by Origins Laboratory, Inc. September 04, 2014. This project is associated with Origins project number X409044-01.

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 - Mobile Premix #2-35

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-41@ 16.5'	X409044-01	Soil	September 4, 2014 10:05	09/04/2014 16:02
SS-43 @ 17'	X409044-02	Soil	September 4, 2014 10:55	09/04/2014 16:02

Origins Laboratory, Inc.



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

Ross S Hutto For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

www.originslaboratory.com

page 1 of 1

ORIGINS

LABORATORY, INC

X409044

Client: Eagle Env. Consulting, Inc.
Address: 4101 Inca Street
Telephone Number: (303) 433-0479
Project Manager/Lead Report To: Martin Eckert III
Email Address: mce3@eagle-enviro.com
Project Name/Number: Mobile Premix #2-35
Samples Collected By: A. Newberry

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air/Sediment		
SS-41016.5'	9-4-14	1005	2	X					X		G, BTEX 2800 DRO - 6015	1
SS-413017'	9-4-14	1055	2	X					X		Asphalt/Sealant	2
												3/4H
												4
												5
												6
												7
												8
												9
												10
Relinquished By: <u>[Signature]</u>	Date: <u>9-4-14</u>	Time: <u>1002</u>	Received By: <u>[Signature]</u>	Date: <u>9-4-14</u>	Time: <u>1002</u>	Tomato/Found Time: <u>Same Day</u> <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/> 110°C						
Relinquished By: <u>[Signature]</u>	Date: <u>9-4-14</u>	Time: <u>1002</u>	Received By: <u>[Signature]</u>	Date: <u>9-4-14</u>	Time: <u>1002</u>							

Date Results Needed: N/A

Comments: Hold samples for PAHs TBD

Origins Laboratory, Inc.

[Signature]

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order **X409044**

Client: **Eagle Env.**

Client Project ID: **Mobile Premix**

Checklist Completed by: **En Pellegrini**

Shipped Via: **H/D**

Date/time completed: **9-4-14 11:10**

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

Airbill #: **N/A**

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

☐ Water ☐ Other:

Cooler Number/Temperature: **1 / 40 °C** / **1** °C / **1** °C (Describe)

Thermometer ID: **T002**

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 8°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
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 HTa 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?	<input checked="" type="checkbox"/>			
For vials 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 ND, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to be taken in the additional comments (above) and the case narrative.

Jeff Hutto
Reviewed by (Project Manager)

9/4/14
Date/Time Reviewed

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 - Mobile Premix #2-35

SS-41@ 16.5'
9/4/2014 10:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X409044-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4104011	09/04/2014	09/04/2014
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Surrogate: o-Terphenyl	115 %	59-131			"	"	"
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4104012	09/04/2014	09/04/2014
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Naphthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"
Surrogate: Toluene-d8	103 %	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 - Mobile Premix #2-35

SS-43 @ 17'**9/4/2014 10:55:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.**X409044-02 (Soil)****Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	4104011	09/04/2014	09/04/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	87.3 %	59-131			"	"	"
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4104012	09/04/2014	09/04/2014
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Benzene	ND	0.002	"	"	"	"	"
---------	----	-------	---	---	---	---	---

Toluene	ND	0.002	"	"	"	"	"
---------	----	-------	---	---	---	---	---

Ethylbenzene	ND	0.002	"	"	"	"	"
--------------	----	-------	---	---	---	---	---

Xylenes, total	ND	0.002	"	"	"	"	"
----------------	----	-------	---	---	---	---	---

Naphthalene	ND	0.008	"	"	"	"	"
-------------	----	-------	---	---	---	---	---

Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"
----------------------------------	-------	--------	--	--	---	---	---

Surrogate: Toluene-d8	104 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"
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Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

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
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Batch 4104012 - EPA 5030 (soil)

Blank (4104012-BLK1)

Prepared: 09/04/2014 Analyzed: 09/04/2014

Gasoline Range Hydrocarbons	ND	0.20	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Naphthalene	ND	0.008	"							
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.4	70-130			

Origins Laboratory, Inc.



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Ross S Hutto For Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

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 4104012 - EPA 5030 (soil)										
LCS (4104012-BS1)					Prepared: 09/04/2014 Analyzed: 09/04/2014					
Benzene	0.10	0.002	mg/kg	0.100		97.2	70-130			
Toluene	0.09	0.002	"	0.100		94.3	70-130			
Ethylbenzene	0.10	0.002	"	0.100		102	70-130			
m,p-Xylene	0.20	0.004	"	0.200		99.2	70-130			
o-Xylene	0.10	0.002	"	0.100		97.8	70-130			
Naphthalene	0.08	0.008	"	0.100		81.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		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 - Mobile Premix #2-35

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
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Batch 4104012 - EPA 5030 (soil)

Matrix Spike (4104012-MS1)		Source: X409010-02			Prepared: 09/04/2014 Analyzed: 09/04/2014					
Benzene	0.11	0.002	mg/kg	0.100	ND	110	70-130			
Toluene	0.11	0.002	"	0.100	ND	111	70-130			
Ethylbenzene	0.12	0.002	"	0.100	ND	116	70-130			
m,p-Xylene	0.23	0.004	"	0.200	ND	115	70-130			
o-Xylene	0.12	0.002	"	0.100	ND	115	70-130			
Naphthalene	0.08	0.008	"	0.100	ND	80.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.8	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.0	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.

Ross S Hutto For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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
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Batch 4104012 - EPA 5030 (soil)

Matrix Spike Dup (4104012-MSD1)		Source: X409010-02			Prepared: 09/04/2014 Analyzed: 09/04/2014					
Benzene	0.11	0.002	mg/kg	0.100	ND	109	70-130	1.24	20	
Toluene	0.11	0.002	"	0.100	ND	113	70-130	1.18	20	
Ethylbenzene	0.12	0.002	"	0.100	ND	115	70-130	0.915	20	
m,p-Xylene	0.22	0.004	"	0.200	ND	109	70-130	5.48	20	
o-Xylene	0.11	0.002	"	0.100	ND	111	70-130	3.84	20	
Naphthalene	0.08	0.008	"	0.100	ND	84.8	70-130	4.93	20	
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.4	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		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.

Ross S Hutto For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4I04011 - EPA 3580

Blank (4I04011-BLK1)

Prepared: 09/04/2014 Analyzed: 09/04/2014

Diesel (C10-C28) ND 50.0 mg/kg

Surrogate: o-Terphenyl 60 g 50.0 120 59-131

LCS (4I04011-BS1)

Prepared: 09/04/2014 Analyzed: 09/04/2014

Diesel (C10-C28) 1050 50.0 mg/kg 1000 105 64-121

Surrogate: o-Terphenyl 54 g 50.0 108 59-131

Matrix Spike (4I04011-MS1)

Source: X409010-02

Prepared: 09/04/2014 Analyzed: 09/04/2014

Diesel (C10-C28) 1090 50.0 mg/kg 1000 ND 109 53-125

Surrogate: o-Terphenyl 56 g 50.0 113 59-131

Matrix Spike Dup (4I04011-MSD1)

Source: X409010-02

Prepared: 09/04/2014 Analyzed: 09/04/2014

Diesel (C10-C28) 1100 50.0 mg/kg 1000 ND 110 53-125 0.737 20

Surrogate: o-Terphenyl 56 g 50.0 113 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: Noble - Mobile Premix #2-35

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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.

Ross S Hutto For Noelle Doyle Mathis, President



September 04, 2014

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Mobile Premix #2-35

Project Number - [none]

Attached are your analytical results for Noble - Mobile Premix #2-35 received by Origins Laboratory, Inc. September 03, 2014. This project is associated with Origins project number X409026-01.

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 - Mobile Premix #2-35

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-38 @ 17'	X409026-01	Soil	September 3, 2014 13:26	09/03/2014 15:00

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.

Ross S Hutto For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

www.originslaboratory.com

X409026

page 1 of 1

ORIGINS

LABORATORY, INC

Client: Eagle Env. Consulting, Inc. Project Manager/Send Report To: Martin Eckert III
Address: 4101 Inca Street Email Address: MCE3@eagle-env.com
Denver, CO, 80211 Project Name/Number: Mobile Premix #2-35
Telephone Number: (303) 433-6439 Samples Collected By: Andrew Hutter

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summary		
SS-38 @ 17'	9-3-14	1300	2	X				X			GBTEX-8040 DRO-8045 Might be used	1
												2
												3
												4
												5
												6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>Andrew Hutter</u>	9-3-14	1500	<u>Andrew Hutter</u>	9/3/14	1800	Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/> 1.6 ~

Date Results Needed: 9/3/14

Comments: Hold samples for PAKs - TBD

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 - Mobile Premix #2-35

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X40902C

Client: Eagle

Client Project ID: Mobile Premix #2-35

Checklist Completed by: Dele Smith

Shipped Via: A/D

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

Date/time completed: 9/3/14 1502

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 1.6 °C _____ °C _____ °C (Describe)

Thermometer ID: T002

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 8°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 45 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain of custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – Is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄); (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed By (Project Manager)

9-3-14 1707
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 - Mobile Premix #2-35

SS-38 @ 17'
9/3/2014 1:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X409026-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4103011	09/03/2014	09/04/2014
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Surrogate: o-Terphenyl	99.0 %	59-131			"	"	"
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4103010	09/03/2014	09/03/2014
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Naphthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"
Surrogate: Toluene-d8	96.5 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	96.7 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

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
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Batch 4103010 - EPA 5030 (soil)

Blank (4103010-BLK1)

Prepared: 09/03/2014 Analyzed: 09/03/2014

Gasoline Range Hydrocarbons	ND	0.20	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Naphthalene	ND	0.008	"							
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.7	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.1	70-130			

Origins Laboratory, Inc.



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

Ross S Hutto For Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

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 4103010 - EPA 5030 (soil)										
LCS (4103010-BS1)					Prepared: 09/03/2014 Analyzed: 09/03/2014					
Benzene	0.10	0.002	mg/kg	0.100		101	70-130			
Toluene	0.10	0.002	"	0.100		96.5	70-130			
Ethylbenzene	0.10	0.002	"	0.100		98.6	70-130			
m,p-Xylene	0.20	0.004	"	0.200		98.8	70-130			
o-Xylene	0.10	0.002	"	0.100		102	70-130			
Naphthalene	0.09	0.008	"	0.100		91.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.4	70-130			

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

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 4103010 - EPA 5030 (soil)

LCS Dup (4103010-BSD1)

Prepared: 09/03/2014 Analyzed: 09/03/2014

Benzene	0.09	0.002	mg/kg	0.100		94.0	70-130	6.84	20	
Toluene	0.09	0.002	"	0.100		88.0	70-130	9.17	20	
Ethylbenzene	0.09	0.002	"	0.100		92.8	70-130	6.10	20	
m,p-Xylene	0.18	0.004	"	0.200		91.2	70-130	8.06	20	
o-Xylene	0.09	0.002	"	0.100		89.7	70-130	12.4	20	
Naphthalene	0.08	0.008	"	0.100		82.1	70-130	10.3	20	
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	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.

Ross S Hutto For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4I03011 - EPA 3580

Blank (4I03011-BLK1)

Prepared: 09/03/2014 Analyzed: 09/03/2014

Diesel (C10-C28) ND 50.0 mg/kg

Surrogate: o-Terphenyl 59 g 50.0 118 59-131

LCS (4I03011-BS1)

Prepared: 09/03/2014 Analyzed: 09/04/2014

Diesel (C10-C28) 986 50.0 mg/kg 1000 98.6 64-121

Surrogate: o-Terphenyl 47 g 50.0 93.4 59-131

Matrix Spike (4I03011-MS1)

Source: X408258-01

Prepared: 09/03/2014 Analyzed: 09/04/2014

Diesel (C10-C28) 940 50.0 mg/kg 1000 ND 94.0 53-125

Surrogate: o-Terphenyl 45 g 50.0 90.8 59-131

Matrix Spike Dup (4I03011-MSD1)

Source: X408258-01

Prepared: 09/03/2014 Analyzed: 09/04/2014

Diesel (C10-C28) 1100 50.0 mg/kg 1000 ND 110 53-125 15.9 20

Surrogate: o-Terphenyl 45 g 50.0 89.7 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: Noble - Mobile Premix #2-35

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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.

Ross S Hutto For Noelle Doyle Mathis, President



September 02, 2014

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Mobile Premix #2-35

Project Number - [none]

Attached are your analytical results for Noble - Mobile Premix #2-35 received by Origins Laboratory, Inc. September 02, 2014. This project is associated with Origins project number X409020-01.

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 - Mobile Premix #2-35

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-32 @ 17'	X409020-01	Soil	September 2, 2014 13:10	09/02/2014 15:48
SS-33 @ 16.5'	X409020-02	Soil	September 2, 2014 13:15	09/02/2014 15:48

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 - Mobile Premix #2-35

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ORIGINS
LABORATORY, INC

X409020

page 1 of 1

Client: Eagle Env Consulting, Inc.
Address: 4101 Inca Street
Telephone Number: (303) 433-0479
Project Manager/Send Report To: Martin Eckert III
Email Address: MEC3@eagle-env.com
Project Name/Number: Mobile Premix #2-35
Samples Collected By: Andrew N. N. N.

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		Analyst/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil		
SS-32 @ 17'	9-2-14	1310	2	X				X		G, BTEX - 8260 DIO - 8015 Naphthalene	1
SS-33 @ 16.5'	9-2-14	1315	2	X				X			2
											3
											4
											5
											6
											7
											8
											9
											10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>Andrew N. N. N.</u>	9-2-14	1540	<u>Andrew N. N. N.</u>	9/2/14	1548	Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/> 49°C

Comments: Hold results for PAHs - TBT
Date Results Needed: N/A

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.

Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: **X409020**

Client: Eagle

Client Project ID: Noble - Mobile Premix #2-35

Checklist Completed by: Jeff Smith

Shipped Via: HYD

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

Date/Time completed: 9/2/12 1202

Airbill #: Ad

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

Cooler Number/Temperature: 1 / 4.9 °C 1 °C 1 °C (Describe) °C

Thermometer ID: T600

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, ZnAs+NaOH).			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by: [Signature] (Project Manager)

9-2-12 1710
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

SS-32 @ 17'
9/2/2014 1:10:00PM

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

Origins Laboratory, Inc.
X409020-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4102008	09/02/2014	09/02/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	117 %	59-131			"	"	"
------------------------	-------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4102007	09/02/2014	09/02/2014
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Naphthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"
Surrogate: Toluene-d8	94.4 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130			"	"	"

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

SS-33 @ 16.5'

9/2/2014 1:15:00PM

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

Origins Laboratory, Inc.
X409020-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4102008	09/02/2014	09/02/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	115 %	59-131			"	"	"
------------------------	-------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4102007	09/02/2014	09/02/2014
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Naphthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"
Surrogate: Toluene-d8	96.3 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.9 %	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 - Mobile Premix #2-35

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 4102007 - EPA 5030 (soil)										
Blank (4102007-BLK1)					Prepared: 09/02/2014 Analyzed: 09/02/2014					
Gasoline Range Hydrocarbons	ND	0.20	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Naphthalene	ND	0.008	"							
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.4	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 - Mobile Premix #2-35

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 4102007 - EPA 5030 (soil)										
LCS (4102007-BS1)					Prepared: 09/02/2014 Analyzed: 09/02/2014					
Benzene	0.10	0.002	mg/kg	0.100		100	70-130			
Toluene	0.09	0.002	"	0.100		93.0	70-130			
Ethylbenzene	0.10	0.002	"	0.100		97.5	70-130			
m,p-Xylene	0.20	0.004	"	0.200		98.4	70-130			
o-Xylene	0.10	0.002	"	0.100		98.0	70-130			
Naphthalene	0.08	0.008	"	0.100		82.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.3	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.

Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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 4102007 - EPA 5030 (soil)										
LCS Dup (4102007-BSD1)					Prepared: 09/02/2014 Analyzed: 09/02/2014					
Benzene	0.10	0.002	mg/kg	0.100		98.8	70-130	1.35	20	
Toluene	0.09	0.002	"	0.100		92.9	70-130	0.172	20	
Ethylbenzene	0.10	0.002	"	0.100		98.4	70-130	0.959	20	
m,p-Xylene	0.20	0.004	"	0.200		99.4	70-130	1.02	20	
o-Xylene	0.10	0.002	"	0.100		99.9	70-130	1.84	20	
Naphthalene	0.09	0.008	"	0.100		94.8	70-130	13.7	20	
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.5	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.5	70-130			

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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 8015M - Quality Control
Origins Laboratory, Inc.

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

Batch 4I02008 - EPA 3580

Blank (4I02008-BLK1)

Prepared: 09/02/2014 Analyzed: 09/02/2014

Diesel (C10-C28)	ND	50.0	mg/kg							
Surrogate: o-Terphenyl	45		g	50.0		90.6	59-131			

LCS (4I02008-BS1)

Prepared: 09/02/2014 Analyzed: 09/02/2014

Diesel (C10-C28)	1080	50.0	mg/kg				64-121			
Surrogate: o-Terphenyl	55		g	50.0		109	59-131			

LCS Dup (4I02008-BSD1)

Prepared: 09/02/2014 Analyzed: 09/02/2014

Diesel (C10-C28)	1030	50.0	mg/kg				64-121	5.45	20	
Surrogate: o-Terphenyl	51		g	50.0		101	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 - Mobile Premix #2-35

Notes and Definitions

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.

Noelle Doyle Mathis, President



September 01, 2014

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Mobile Premix #2-35

Project Number - [none]

Attached are your analytical results for Noble - Mobile Premix #2-35 received by Origins Laboratory, Inc. August 29, 2014. This project is associated with Origins project number X408259-01.

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 - Mobile Premix #2-35

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-01	X408259-01	Water	August 29, 2014 12:30	08/29/2014 15:30

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.

Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

ORIGINS

LABORATORY, INC

www.originslaboratory.com

X408259

page 1 of 1

Client: Eagle Env. Consulting, Inc. Project Manager/Send Report To: Martin Eckert III
Address: 4101 Inca Street Email Address: mce3@eagle-enviro.com
Denver, CO, 80211 Project Name/Number: Mobile Premix #235
Telephone Number: (303) 433-0479 Samples Collected By: A. Newberry

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/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summ. #		
GW-01	8-29-14	1230	3	X				X			BTEX-800	1
												2 AM
												3
												4
												5
												6
												7
												8
												9
												10

Relinquished By: <u>[Signature]</u>	Date: <u>8-29-14</u>	Time: <u>1530</u>	Received By: <u>[Signature]</u>	Date: <u>8/29/14</u>	Time: <u>1530</u>	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr 48 Hr <input type="checkbox"/> 72 Hr Standard <input type="checkbox"/>
	Date: <u>8-29-14</u>	Time: <u>1530</u>		Date: <u>8/29/14</u>	Time: <u>1530</u>	

Field Details: None/None/None

Origins Laboratory, Inc.

[Signature]

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X468259

Client: Eagle

Client Project ID: Mobile Premix #2-35

Checklist Completed by: Jeff Smith

Shipped Via: H/D

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

Date/time completed: 8/29/11 1124

Airbill #: NA

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

Cooler Number/Temperature: 1 13.4 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: 12002

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"/>		<u>Sampled Same Day</u>
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"/>			<u>HCL</u>
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) Jeff Smith

Date/Time Reviewed 8/29/11 1755

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 - Mobile Premix #2-35

GW-01

8/29/2014 12:30:00PM

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.
X408259-01 (Water)**BTEX by EPA 8260C**

Benzene	92.4	1.0	ug/L	1	4H29007	08/29/2014	08/29/2014
Toluene	78.3	1.0	"	"	"	"	"
Ethylbenzene	9.3	1.0	"	"	"	"	"
Xylenes, total	98.5	1.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4

97.5 % 87.3-113

"

"

"

Surrogate: Toluene-d8

98.0 % 90.9-108

"

"

"

Surrogate: 4-Bromofluorobenzene

95.6 % 88.6-111

"

"

"

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.

Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

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 4H29007 - EPA 5030B (Water)

Blank (4H29007-BLK1)

Prepared: 08/29/2014 Analyzed: 08/29/2014

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5	99.0		87.3-113			
Surrogate: Toluene-d8	62		"	62.5	99.6		90.9-108			
Surrogate: 4-Bromofluorobenzene	61		"	62.5	98.4		88.6-111			

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.

Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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 4H29007 - EPA 5030B (Water)										
LCS (4H29007-BS1)					Prepared: 08/29/2014 Analyzed: 08/29/2014					
Benzene	50.7	1.0	ug/L	50.0		101	75-126			
Toluene	52.3	1.0	"	50.0		105	78.7-126			
Ethylbenzene	52.4	1.0	"	50.0		105	81-130			
m,p-Xylene	103	2.0	"	100		103	77.2-133			
o-Xylene	50.8	1.0	"	50.0		102	77.9-126			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		90.4	87.3-113			
Surrogate: Toluene-d8	63		"	62.5		101	90.9-108			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.1	88.6-111			

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 - Mobile Premix #2-35

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 4H29007 - EPA 5030B (Water)

Matrix Spike (4H29007-MS1)		Source: X408250-16			Prepared: 08/29/2014 Analyzed: 08/29/2014					
Benzene	33.6	1.0	ug/L	50.0	ND	67.2	74-130			QM-07
Toluene	33.2	1.0	"	50.0	ND	66.3	73-131			QM-07
Ethylbenzene	33.1	1.0	"	50.0	ND	66.2	76-132			QM-07
m,p-Xylene	64.7	2.0	"	100	ND	64.7	69-139			QM-07
o-Xylene	33.8	1.0	"	50.0	ND	67.5	74-131			QM-07
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.4	87.3-113			
Surrogate: Toluene-d8	62		"	62.5		98.6	90.9-108			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.1	88.6-111			

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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 4H29007 - EPA 5030B (Water)

Matrix Spike Dup (4H29007-MSD1)		Source: X408250-16			Prepared: 08/29/2014 Analyzed: 08/29/2014					
Benzene	42.2	1.0	ug/L	50.0	ND	84.4	74-130	22.7	20	QM-07
Toluene	41.9	1.0	"	50.0	ND	83.9	73-131	23.4	20	QM-07
Ethylbenzene	41.9	1.0	"	50.0	ND	83.8	76-132	23.4	20	QM-07
m,p-Xylene	80.4	2.0	"	100	ND	80.4	69-139	21.7	20	QM-07
o-Xylene	40.7	1.0	"	50.0	ND	81.3	74-131	18.5	20	
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		92.1	87.3-113			
Surrogate: Toluene-d8	62		"	62.5		99.2	90.9-108			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.6	88.6-111			

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.

Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

Notes and Definitions

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.

Noelle Doyle Mathis, President



August 29, 2014

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Mobile Premix #2-35

Project Number - [none]

Attached are your analytical results for Noble - Mobile Premix #2-35 received by Origins Laboratory, Inc. August 28, 2014. This project is associated with Origins project number X408246-01.

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 - Mobile Premix #2-35

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-15 @ 4'	X408246-01	Soil	August 28, 2014 12:15	08/28/2014 16:50
SS-18 @ 4'	X408246-02	Soil	August 28, 2014 13:20	08/28/2014 16:50
SS-23 @ 5.5'	X408246-03	Soil	August 28, 2014 14:40	08/28/2014 16:50

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 - Mobile Premix #2-35

www.originslaboratory.com

X408246

page ____ of

ORIGINS

LABORATORY, INC

Client: Eagle Env. Consulting, Inc.
Address: 4101 Inca Street
Telephone Number: (303) 433-0479
Project Manager/Send Report To: Martin Eckert III
Email Address: MPCE3@eagle-enviro.com
Project Name/Number: Mobile Premix #2-35
Samples Collected By: A. Newberry

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Other		
SS-15 @ 4'	8-28-14	1215	2	X				X			G, BTEX - 8260 DRO - 8015 Naphthalene	1
SS-18 @ 4'		1320	1									2
SS-23 @ 5.5'		1440	1									3
												4
												5
												6
												7
												8
												9
												10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<i>[Signature]</i>	8-28-14	1650	<i>[Signature]</i>	8-28-14	1650	Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/>

Date Results Needed 8-28-14

Comments: Hold samples for PAHs - TSD

Origins Laboratory, Inc.

[Signature]

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

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: X408246

Client: Eagle

Client Project ID: Mobile Premix #2-35

Checklist Completed by: Jan Pellegrini

Shipped Via HID

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

Date/time completed: 8-28-14 11:50

Airbill # N/A

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

Cooler Number/Temperature 1 / 1.9 °C 1 °C 1 °C (Describes) °C

Thermometer ID: T002

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

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

Revised 8/28/14 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 - Mobile Premix #2-35

SS-15 @ 4'

8/28/2014 12:15:00PM

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

Origins Laboratory, Inc.
X408246-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4H28003	08/28/2014	08/28/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	120 %	59-131			"	"	"
------------------------	-------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4H28012	08/28/2014	08/28/2014
-----------------------------	----	------	-------	---	---------	------------	------------

Benzene	ND	0.002	"	"	"	"	"
---------	----	-------	---	---	---	---	---

Toluene	ND	0.002	"	"	"	"	"
---------	----	-------	---	---	---	---	---

Ethylbenzene	ND	0.002	"	"	"	"	"
--------------	----	-------	---	---	---	---	---

Xylenes, total	ND	0.002	"	"	"	"	"
----------------	----	-------	---	---	---	---	---

Naphthalene	ND	0.008	"	"	"	"	"
-------------	----	-------	---	---	---	---	---

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"
----------------------------------	-------	--------	--	--	---	---	---

Surrogate: Toluene-d8	98.4 %	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.

Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

SS-18 @ 4'
8/28/2014 1:20:00PM

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

Origins Laboratory, Inc.
X408246-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4H28003	08/28/2014	08/28/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	115 %	59-131			"	"	"
------------------------	-------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4H28012	08/28/2014	08/28/2014
Benzene	0.007	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Napthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"
Surrogate: Toluene-d8	97.6 %	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 - Mobile Premix #2-35

SS-23 @ 5.5'
8/28/2014 2:40:00PM

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

Origins Laboratory, Inc.
X408246-03 (Soil)

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

Diesel (C10-C28)	70.2	50.0	mg/kg	1	4H28003	08/28/2014	08/28/2014
------------------	------	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	120 %	59-131			"	"	"
------------------------	-------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	1440	5.00	mg/kg	25	4H28012	08/28/2014	08/28/2014
Benzene	ND	0.05	"	"	"	"	"
Toluene	ND	0.05	"	"	"	"	"
Ethylbenzene	ND	0.05	"	"	"	"	"
Xylenes, total	ND	0.05	"	"	"	"	"
Naphthalene	ND	0.20	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130			"	"	"
Surrogate: Toluene-d8	99.5 %	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 - Mobile Premix #2-35

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 4H28012 - EPA 5030 (soil)										
Blank (4H28012-BLK1)					Prepared: 08/28/2014 Analyzed: 08/28/2014					
Gasoline Range Hydrocarbons	ND	0.20	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Naphthalene	ND	0.008	"							
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.8	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.

Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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 4H28012 - EPA 5030 (soil)										
LCS (4H28012-BS1)					Prepared: 08/28/2014 Analyzed: 08/28/2014					
Benzene	0.09	0.002	mg/kg	0.100		87.3	70-130			
Toluene	0.09	0.002	"	0.100		90.3	70-130			
Ethylbenzene	0.09	0.002	"	0.100		89.3	70-130			
m,p-Xylene	0.18	0.004	"	0.200		89.4	70-130			
o-Xylene	0.09	0.002	"	0.100		90.1	70-130			
Naphthalene	0.08	0.008	"	0.100		82.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	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: Noble - Mobile Premix #2-35

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 4H28012 - EPA 5030 (soil)										
LCS Dup (4H28012-BSD1)					Prepared: 08/28/2014 Analyzed: 08/28/2014					
Benzene	0.09	0.002	mg/kg	0.100		89.7	70-130	2.78	20	
Toluene	0.09	0.002	"	0.100		90.5	70-130	0.243	20	
Ethylbenzene	0.09	0.002	"	0.100		89.4	70-130	0.179	20	
m,p-Xylene	0.18	0.004	"	0.200		90.5	70-130	1.22	20	
o-Xylene	0.09	0.002	"	0.100		91.0	70-130	1.04	20	
Naphthalene	0.08	0.008	"	0.100		82.1	70-130	0.462	20	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.5	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	70-130			

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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 8015M - Quality Control
Origins Laboratory, Inc.

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

Batch 4H28003 - EPA 3580

Blank (4H28003-BLK1)

Prepared: 08/28/2014 Analyzed: 08/29/2014

Diesel (C10-C28)	ND	50.0	mg/kg							
Surrogate: o-Terphenyl	61		g	50.0		121	59-131			S-07

LCS (4H28003-BS1)

Prepared: 08/28/2014 Analyzed: 08/28/2014

Diesel (C10-C28)	1170	50.0	mg/kg	1000		117	64-121			
Surrogate: o-Terphenyl	58		g	50.0		116	59-131			

Matrix Spike (4H28003-MS1)

Source: X408243-12

Prepared: 08/28/2014 Analyzed: 08/28/2014

Diesel (C10-C28)	1160	50.0	mg/kg	1000	ND	116	53-125			
Surrogate: o-Terphenyl	57		g	50.0		114	59-131			

Matrix Spike Dup (4H28003-MSD1)

Source: X408243-12

Prepared: 08/28/2014 Analyzed: 08/28/2014

Diesel (C10-C28)	1140	50.0	mg/kg	1000	ND	114	53-125	1.45	20	
Surrogate: o-Terphenyl	57		g	50.0		114	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: Noble - Mobile Premix #2-35

Notes and Definitions

S-07 High surrogate in sample, however sample is non-detect. High surrogate indicates result values are biased high.

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.

Noelle Doyle Mathis, President



August 19, 2014

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Mobile Premix #2-35

Project Number - [none]

Attached are your analytical results for Noble - Mobile Premix #2-35 received by Origins Laboratory, Inc. August 18, 2014. This project is associated with Origins project number X408171-01.

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 - Mobile Premix #2-35

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-13 @ 0.5'	X408171-01	Soil	August 18, 2014 17:30	08/18/2014 19:21

Origins Laboratory, Inc.



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

Davi

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

www.originslaboratory.com

page 1 of 1

8/18/14

ORIGINS LABORATORY, INC

Client: Eagle Env. Consulting Project Manager/Send Report To: Martin C Eckert

Address: 4101 Inca St Email Address: mce3@eagle-enviro.com

Denver, CO 80211 Project Name/Number: Mobile Premix #2-35

Telephone Number: 303 433 0474 Samples Collected By: E. Konde

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/Method	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #			Other
SS-13 Q. S'	8-13-14	1730	2	X					X				1
													2
													3
													4
													5
													6
													7
													8
													9
													10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
E. Konde	8-13-14	1921	David Malins	8/18/14	1921	Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input type="checkbox"/> (Noble)

Comments:

Date Results Needed:

Origins Laboratory, Inc.

Davi



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 - Mobile Premix #2-35

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: **X408171**

Client: Eagle

Client Project ID: Mobile Premix #2-35

Checklist Completed by: Jeff Smith

Shipped Via: 4rD

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

Date/time completed: 8/18/14

Airbill #: NA

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

☐ Water

☐ Other:

(Describe)

Cooler Number/Temperature: 16.7 °C / 1 °C / 1 °C / 1 °C

Thermometer ID: T002

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>Sampled Same Day</u>
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): <u>Robin L. requested via Verbal Conversation with Scout D. that Project be resubmitted on 8/19/14 at 8:00 with corrected Sample IDs and divided into three separate COCs reported individually.</u> <u>8/19/14 JES</u>				

⁽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)

8-19-14 0956
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 - Mobile Premix #2-35

SS-13 @ 0.5'

8/18/2014 5:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

X408171-01 (Soil)

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

Diesel (C10-C28)	3240	50.0	mg/kg	1	4H18015	08/18/2014	08/19/2014
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Surrogate: o-Terphenyl	108 %	59-131			"	"	"
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	520	10.0	mg/kg	50	4H18020	08/18/2014	08/18/2014
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Benzene	1.01	0.10	"	"	"	"	"
---------	------	------	---	---	---	---	---

Toluene	ND	0.10	"	"	"	"	"
---------	----	------	---	---	---	---	---

Ethylbenzene	1.41	0.10	"	"	"	"	"
--------------	------	------	---	---	---	---	---

Xylenes, total	9.39	0.10	"	"	"	"	"
----------------	------	------	---	---	---	---	---

Napthalene	1.46	0.40	"	"	"	"	"
------------	------	------	---	---	---	---	---

Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130			"	"	"
----------------------------------	--------	--------	--	--	---	---	---

Surrogate: Toluene-d8	122 %	70-130			"	"	"
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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 - Mobile Premix #2-35

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 4H18020 - EPA 5030 (soil)

Blank (4H18020-BLK1)

Prepared: 08/18/2014 Analyzed: 08/18/2014

Gasoline Range Hydrocarbons	ND	0.20	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Naphthalene	ND	0.008	"							
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.8	70-130			

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

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 4H18020 - EPA 5030 (soil)

LCS (4H18020-BS1)

Prepared: 08/18/2014 Analyzed: 08/18/2014

Benzene	0.09	0.002	mg/kg	0.100		94.3	70-130			
Toluene	0.09	0.002	"	0.100		87.1	70-130			
Ethylbenzene	0.09	0.002	"	0.100		91.7	70-130			
m,p-Xylene	0.19	0.004	"	0.200		94.6	70-130			
o-Xylene	0.09	0.002	"	0.100		92.3	70-130			
Naphthalene	0.10	0.008	"	0.100		95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		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 - Mobile Premix #2-35

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 4H18020 - EPA 5030 (soil)

LCS Dup (4H18020-BSD1)

Prepared: 08/18/2014 Analyzed: 08/18/2014

Benzene	0.10	0.002	mg/kg	0.100		99.8	70-130	5.63	20	
Toluene	0.10	0.002	"	0.100		96.9	70-130	10.6	20	
Ethylbenzene	0.10	0.002	"	0.100		100	70-130	8.82	20	
m,p-Xylene	0.20	0.004	"	0.200		102	70-130	7.79	20	
o-Xylene	0.10	0.002	"	0.100		101	70-130	8.59	20	
Naphthalene	0.11	0.008	"	0.100		109	70-130	13.8	20	
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		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.

Davi

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

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
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Extractable Petroleum Hydrocarbons by 8015M - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4H18015 - EPA 3580

Blank (4H18015-BLK1)

Prepared: 08/18/2014 Analyzed: 08/19/2014

Diesel (C10-C28)	ND	50.0	mg/kg							
Surrogate: o-Terphenyl	45		g	50.0		89.7	59-131			

LCS (4H18015-BS1)

Prepared: 08/18/2014 Analyzed: 08/19/2014

Diesel (C10-C28)	831	50.0	mg/kg	1000		83.1	64-121			
Surrogate: o-Terphenyl	47		g	50.0		93.9	59-131			

LCS Dup (4H18015-BSD1)

Prepared: 08/18/2014 Analyzed: 08/19/2014

Diesel (C10-C28)	848	50.0	mg/kg	1000		84.8	64-121	2.10	20	
Surrogate: o-Terphenyl	47		g	50.0		95.0	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 - Mobile Premix #2-35

Notes and Definitions

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.



Davi

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.



August 21, 2014

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Mobile Premix #2-35

Project Number - [none]

Attached are your analytical results for Noble - Mobile Premix #2-35 received by Origins Laboratory, Inc. August 18, 2014. This project is associated with Origins project number X408170-01.

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 - Mobile Premix #2-35

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-02 @ 3'	X408170-01	Soil	August 18, 2014 12:55	08/18/2014 19:21
SS-05 @ 6.5'	X408170-02	Soil	August 18, 2014 13:00	08/18/2014 19:21

Origins Laboratory, Inc.



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

Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

ORIGINS
LABORATORY, INC

www.originslaboratory.com

X408170

page 1 of 1

Client: EMULE FOR CONSTRUCTION Project Manager/Send Report To: Martin C. Eckert
Address: 4101 Inca St Email Address: mle35@eagle-consult.com
DENVER, CO 80211 Project Name/Number: Mobile Premix #2-35
Telephone Number: 303 477 0474 Samples Collected By: E. Vande

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/Method	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Container + Other			
SS-02-03	8-18-14	1255	2	X				X			X	1	BTEX, TH-PAHs, SINK, NASTHANE, etc.
SS-05-06	8-18-14	1300	2	X				X			X	2	
												3	
												4	
												5	
												6	
												7	
												8	
												9	
												10	
Relinquished By: <u>E. Vande</u>	Date: <u>8-18-14</u>	Time: <u>1421</u>	Time: <u>1421</u>	Received By: <u>David Mathis</u>				Date: <u>8/18/14</u>	Time: <u>1421</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard (Noble)			

Comments:

Paula Bassett, M.Sc., J.D.

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.

Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X408170

Client: Eagle

Client Project ID: Mobile Premix #2-35

Checklist Completed by: Jeff Smith

Shipped Via: 4x/D

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

Date/time completed: 8/18/14

Airbill #: NA

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

(Describe)

Cooler Number/Temperature: 16.7 °C / 1 °C / 1 °C / 1 °C

Thermometer ID: T002

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>Sampled Same Day</u>
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"/>			<u>PH</u>
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): <u>Robin L requested via verbal conversation with Scott D. that Project be resubmitted on 8/19/14 at 8:00 with corrected sample IDs and divided into three separate COCs reported individually.</u>				
<u>8/19/14 Jeff</u>				

⁽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)

8-19-14 JES
Date/Time Reviewed

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 - Mobile Premix #2-35

SS-02 @ 3'

8/18/2014 12:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X408170-01 (Soil)

Conductance/Specific Conductance by EPA 120.1

Specific Conductance (EC)	0.128	mmhos/cm	1	4H18012	08/18/2014	08/19/2014
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Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	4H18015	08/18/2014	08/19/2014
------------------	----	------	-------	---	---------	------------	------------

<i>Surrogate: o-Terphenyl</i>	76.3 %	59-131			"	"	"
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4H18020	08/18/2014	08/18/2014
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Naphthalene	ND	0.008	"	"	"	"	"

<i>Surrogate: 1,2-Dichloroethane-d4</i>	103 %	70-130			"	"	"
<i>Surrogate: Toluene-d8</i>	98.1 %	70-130			"	"	"
<i>Surrogate: 4-Bromofluorobenzene</i>	102 %	70-130			"	"	"

pH in Soil by EPA 9045D

pH	8.10	pH Units	1	4H18011	08/18/2014	08/19/2014
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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 - Mobile Premix #2-35

SS-02 @ 3'

8/18/2014 12:55:00PM

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit						

XENCO

X408170-01 (Soil)

Sodium Absorption Ratio

Sodium Absorption Ratio	0.25	1	948820	08/21/2014	08/21/2014
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Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

SS-05 @ 6.5'
8/18/2014 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X408170-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4H18015	08/18/2014	08/19/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	91.2 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4H18020	08/18/2014	08/18/2014
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Naphthalene	ND	0.008	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"
Surrogate: Toluene-d8	99.4 %	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 - Mobile Premix #2-35

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 4H18020 - EPA 5030 (soil)

Blank (4H18020-BLK1)

Prepared: 08/18/2014 Analyzed: 08/18/2014

Gasoline Range Hydrocarbons	ND	0.20	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Naphthalene	ND	0.008	"							
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.8	70-130			

Origins Laboratory, Inc.



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Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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 4H18020 - EPA 5030 (soil)										
LCS (4H18020-BS1)					Prepared: 08/18/2014 Analyzed: 08/18/2014					
Benzene	0.09	0.002	mg/kg	0.100		94.3	70-130			
Toluene	0.09	0.002	"	0.100		87.1	70-130			
Ethylbenzene	0.09	0.002	"	0.100		91.7	70-130			
m,p-Xylene	0.19	0.004	"	0.200		94.6	70-130			
o-Xylene	0.09	0.002	"	0.100		92.3	70-130			
Naphthalene	0.10	0.008	"	0.100		95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.7	70-130			

Origins Laboratory, Inc.



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

Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Mobile Premix #2-35

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 4H18020 - EPA 5030 (soil)										
LCS Dup (4H18020-BSD1)					Prepared: 08/18/2014 Analyzed: 08/18/2014					
Benzene	0.10	0.002	mg/kg	0.100		99.8	70-130	5.63	20	
Toluene	0.10	0.002	"	0.100		96.9	70-130	10.6	20	
Ethylbenzene	0.10	0.002	"	0.100		100	70-130	8.82	20	
m,p-Xylene	0.20	0.004	"	0.200		102	70-130	7.79	20	
o-Xylene	0.10	0.002	"	0.100		101	70-130	8.59	20	
Naphthalene	0.11	0.008	"	0.100		109	70-130	13.8	20	
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		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 - Mobile Premix #2-35

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4H18015 - EPA 3580

Blank (4H18015-BLK1)

Prepared: 08/18/2014 Analyzed: 08/19/2014

Diesel (C10-C28)	ND	50.0	mg/kg							
Surrogate: o-Terphenyl	45		g	50.0		89.7	59-131			

LCS (4H18015-BS1)

Prepared: 08/18/2014 Analyzed: 08/19/2014

Diesel (C10-C28)	831	50.0	mg/kg	1000		83.1	64-121			
Surrogate: o-Terphenyl	47		g	50.0		93.9	59-131			

LCS Dup (4H18015-BSD1)

Prepared: 08/18/2014 Analyzed: 08/19/2014

Diesel (C10-C28)	848	50.0	mg/kg	1000		84.8	64-121	2.10	20	
Surrogate: o-Terphenyl	47		g	50.0		95.0	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 - Mobile Premix #2-35

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4H18011 - NO PREP										
Duplicate (4H18011-DUP1)		Source: X408161-05			Prepared: 08/18/2014 Analyzed: 08/19/2014					
pH	8.18		pH Units		8.21			0.354	25	
Batch 4H18012 - NO PREP										
Blank (4H18012-BLK1)		Prepared: 08/18/2014 Analyzed: 08/19/2014								
Specific Conductance (EC)	0.00170		mmhos/cm							
Duplicate (4H18012-DUP1)		Source: X408161-05			Prepared: 08/18/2014 Analyzed: 08/19/2014					
Specific Conductance (EC)	1.70		mmhos/cm		1.59			6.44	10	

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 - Mobile Premix #2-35

Notes and Definitions

J Greater than the detection limit but less than the reporting limit

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.

Noelle Doyle Mathis, President



August 19, 2014

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Mobile Premix #2-35

Project Number - [none]

Attached are your analytical results for Noble - Mobile Premix #2-35 received by Origins Laboratory, Inc. August 18, 2014. This project is associated with Origins project number X408169-01.

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 - Mobile Premix #2-35

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-06 @ 4.5'	X408169-01	Soil	August 18, 2014 15:00	08/18/2014 19:21
SS-09 @ 4.5'	X408169-02	Soil	August 18, 2014 15:45	08/18/2014 19:21
SS-10 @ 4.5'	X408169-03	Soil	August 18, 2014 16:45	08/18/2014 19:21
SS-11 @ 4.5'	X408169-04	Soil	August 18, 2014 16:30	08/18/2014 19:21
SS-12 @ 4.5'	X408169-05	Soil	August 18, 2014 16:00	08/18/2014 19:21

Origins Laboratory, Inc.



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

Davi

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

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page 1 of 1

ORIGINS

LABORATORY, INC

X408169

Client: Eagle Env. Consulting Project Manager/Send Report To: Martin C Eckert III
 Address: 4101 Inca St Email Address: mce35@eagle-enviro.com
Denver, CO 80211 Project Name/Number: Mobile Premix #2-35
 Telephone Number: 303 433 0474 Samples Collected By: E. Vonde

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis/Method	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
SS-06 @ 4.5'	8-13-14	1500	2					X			X	1
SS-09 @ 4.5'	8-13-14	1545	2					X			X	2
SS-10 @ 4.5'	8-13-14	1645	2					X			X	3
SS-11 @ 4.5'	8-13-14	1630	2					X			X	4
SS-12 @ 7.5'	8-13-14	1600	2					X			X	5
												6
												7
												8
												9
												10

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

Relinquished By: E. Vonde Date: 8-13-14 Time: 1921
 Relinquished By: David Methis Date: 8/18/14 Time: 1921

Comments:

Date Results Needed:

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 - Mobile Premix #2-35

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X408169

Client: Eagle

Client Project ID: Mobile Premix #2-35

Checklist Completed by: Jeff Smith

Shipped Via: 4rD

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

Date/time completed: 8/18/14

Airbill #: NA

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

☐ Water

☐ Other:

(Describe)

Cooler Number/Temperature: 16.7 °C / 1 °C / 1 °C / 1 °C

Thermometer ID: T002

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		<u>Sampled Same Day</u>
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): <u>Robin L. requested via Verbal Conversation with Scout D. that Project be resubmitted on 8/19/14 at 8:00 with corrected Sample IDs and divided into three separate COCs reported individually.</u> <u>8/19/14 JES</u>				

⁽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)

2A-14 0955
Date/Time Reviewed

Origins Laboratory, Inc.

Davi

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 - Mobile Premix #2-35

SS-06 @ 4.5'

8/18/2014 3:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

X408169-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4H18015	08/18/2014	08/19/2014
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Surrogate: o-Terphenyl	86.6 %	59-131			"	"	"
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4H18020	08/18/2014	08/18/2014
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Benzene	ND	0.002	"	"	"	"	"
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Toluene	ND	0.002	"	"	"	"	"
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Ethylbenzene	ND	0.002	"	"	"	"	"
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Xylenes, total	ND	0.002	"	"	"	"	"
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Napthalene	ND	0.008	"	"	"	"	"
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Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"
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Surrogate: Toluene-d8	94.8 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	99.5 %	70-130			"	"	"
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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 - Mobile Premix #2-35

SS-09 @ 4.5'

8/18/2014 3:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

X408169-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4H18015	08/18/2014	08/19/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	85.2 %	59-131			"	"	"
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4H18020	08/18/2014	08/18/2014
-----------------------------	----	------	-------	---	---------	------------	------------

Benzene	ND	0.002	"	"	"	"	"
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Toluene	ND	0.002	"	"	"	"	"
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Ethylbenzene	ND	0.002	"	"	"	"	"
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Xylenes, total	ND	0.002	"	"	"	"	"
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Napthalene	ND	0.008	"	"	"	"	"
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Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"
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Surrogate: Toluene-d8	96.8 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"
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Origins Laboratory, Inc.



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

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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

SS-10 @ 4.5'

8/18/2014 4:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

X408169-03 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4H18015	08/18/2014	08/19/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	85.8 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4H18020	08/18/2014	08/18/2014
-----------------------------	----	------	-------	---	---------	------------	------------

Benzene	ND	0.002	"	"	"	"	"
---------	----	-------	---	---	---	---	---

Toluene	ND	0.002	"	"	"	"	"
---------	----	-------	---	---	---	---	---

Ethylbenzene	ND	0.002	"	"	"	"	"
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Xylenes, total	ND	0.002	"	"	"	"	"
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Napthalene	ND	0.008	"	"	"	"	"
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Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"
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Surrogate: Toluene-d8	96.8 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"
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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 - Mobile Premix #2-35

SS-11 @ 4.5'

8/18/2014 4:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

X408169-04 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	4H18015	08/18/2014	08/19/2014
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	80.8 %	59-131			"	"	"
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4H18020	08/18/2014	08/18/2014
-----------------------------	----	------	-------	---	---------	------------	------------

Benzene	ND	0.002	"	"	"	"	"
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Toluene	ND	0.002	"	"	"	"	"
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Ethylbenzene	ND	0.002	"	"	"	"	"
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Xylenes, total	ND	0.002	"	"	"	"	"
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Napthalene	ND	0.008	"	"	"	"	"
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Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"
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Surrogate: Toluene-d8	96.5 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	97.9 %	70-130			"	"	"
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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 - Mobile Premix #2-35

SS-12 @ 4.5'

8/18/2014 4:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

X408169-05 (Soil)

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

Diesel (C10-C28)	68.0	50.0	mg/kg	1	4H18015	08/18/2014	08/19/2014
------------------	------	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	90.5 %	59-131			"	"	"
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.20	mg/kg	1	4H18020	08/18/2014	08/19/2014
-----------------------------	----	------	-------	---	---------	------------	------------

Benzene	ND	0.002	"	"	"	"	"
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Toluene	ND	0.002	"	"	"	"	"
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Ethylbenzene	ND	0.002	"	"	"	"	"
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Xylenes, total	ND	0.002	"	"	"	"	"
----------------	----	-------	---	---	---	---	---

Napthalene	ND	0.008	"	"	"	"	"
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Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"
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Surrogate: Toluene-d8	99.3 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"
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Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

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
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Batch 4H18020 - EPA 5030 (soil)

Blank (4H18020-BLK1)

Prepared: 08/18/2014 Analyzed: 08/18/2014

Gasoline Range Hydrocarbons	ND	0.20	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Naphthalene	ND	0.008	"							
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.8	70-130			

Origins Laboratory, Inc.



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

Davi

Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

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 4H18020 - EPA 5030 (soil)

LCS (4H18020-BS1)

Prepared: 08/18/2014 Analyzed: 08/18/2014

Benzene	0.09	0.002	mg/kg	0.100		94.3	70-130			
Toluene	0.09	0.002	"	0.100		87.1	70-130			
Ethylbenzene	0.09	0.002	"	0.100		91.7	70-130			
m,p-Xylene	0.19	0.004	"	0.200		94.6	70-130			
o-Xylene	0.09	0.002	"	0.100		92.3	70-130			
Naphthalene	0.10	0.008	"	0.100		95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		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 - Mobile Premix #2-35

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
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Batch 4H18020 - EPA 5030 (soil)

LCS Dup (4H18020-BSD1)

Prepared: 08/18/2014 Analyzed: 08/18/2014

Benzene	0.10	0.002	mg/kg	0.100		99.8	70-130	5.63	20	
Toluene	0.10	0.002	"	0.100		96.9	70-130	10.6	20	
Ethylbenzene	0.10	0.002	"	0.100		100	70-130	8.82	20	
m,p-Xylene	0.20	0.004	"	0.200		102	70-130	7.79	20	
o-Xylene	0.10	0.002	"	0.100		101	70-130	8.59	20	
Naphthalene	0.11	0.008	"	0.100		109	70-130	13.8	20	
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.3	70-130			

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Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

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
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Extractable Petroleum Hydrocarbons by 8015M - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4H18015 - EPA 3580

Blank (4H18015-BLK1)

Prepared: 08/18/2014 Analyzed: 08/19/2014

Diesel (C10-C28)	ND	50.0	mg/kg							
Surrogate: o-Terphenyl	45		g	50.0		89.7	59-131			

LCS (4H18015-BS1)

Prepared: 08/18/2014 Analyzed: 08/19/2014

Diesel (C10-C28)	831	50.0	mg/kg	1000		83.1	64-121			
Surrogate: o-Terphenyl	47		g	50.0		93.9	59-131			

LCS Dup (4H18015-BSD1)

Prepared: 08/18/2014 Analyzed: 08/19/2014

Diesel (C10-C28)	848	50.0	mg/kg	1000		84.8	64-121	2.10	20	
Surrogate: o-Terphenyl	47		g	50.0		95.0	59-131			

Origins Laboratory, Inc.



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4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Mobile Premix #2-35

Notes and Definitions

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.



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