EOG Resources, Inc.
Artesia Division Office
104 S. 4th Street
Artesia, N. M. 88210

November 13, 2020

NMOCD District II
811 S. First St.
Artesia, NM 88210

Re: Jackson B #5 Battery
P-1-17S-30E
Eddy County, NM
Incident #NRM2023059703

EOG Y Resources, Inc. is submitting the enclosed remediation work plan for the above referenced site. The plan is being submitted in reference to the C-141 report submitted on August 17, 2020.

If you have any questions, feel free to call me at (575) 748-1471.

Respectfully,

Chase Settle

Chase Settle
Rep Safety & Environmental II
EOG Resources, Inc.

# Jackson B #5 Battery

# Remediation Work Plan

## P-1-17S-30E

## Eddy County, NM

## November 13, 2020

## NRM2023059703

## Table of Contents

## I. Location

From the intersection of US HWY 82 and Square Lake Road (CR 220), head north on Square Lake Road for 3.2 miles, then turn east on the lease road for a quarter of mile, then turn south for an 1/8th of a mile to the location.

## II. Background

During facility maintenance, historical impaction was discovered under the oil tanks that were located in the unlined portion of the battery. EOG began excavating the impacted soils once discovered, and stockpiled the excavated soil within lined, bermed soil holding cells. After removing the visually impacted soil to a depth of four (4) feet below grade surface (bgs), EOG submitted a sampling notification to NMOCD and BLM on August 10, 2020, for sampling activities that occurred on August 13, 2020. Further excavation was completed after these results were returned. The V2, V5, and V6 areas were excavated to five (5) feet bgs and the V1 area to a depth of twelve (12) feet bgs. The sidewalls were also excavated out further in the H1, H2, and H6 areas. EOG again performed soil sampling for confirmation on September 3, 2020, with notification going to NMOCD and BLM on September 1, 2020. Once these results returned, the H6 area still required further excavation. Once that was completed, confirmation samples were again collected on September 17, 2020, after notification was sent to NMOCD and BLM on September 15, 2020. Approximately 500 cubic yards of impacted soil was excavated from the site and stockpiled in a lined and bermed treatment cell on location. Samples from the impacted stockpile were collected during the August 13 sampling event to provide a baseline analysis of the soil prior to the bioremediation process.

## III. Surface and Ground Water

Area surface geology is Cenozoic Quaternary. Based on information from the United States Geological Survey National Water Information System (USGS) regarding this location (Section 1, T17S-R30E), the closest well to the release is 2.5 miles to the west at a depth of 361 feet bgs. Watercourses in the area are dry except for infrequent flows in response to major precipitation events, with the nearest body of significant surface water being the Flat Lake at 13 miles away.

## IV. NMOCD Assessment Criteria

The site assessment criteria are as follows:

| | |
|---|---|
| Depth to ground water | > 100' |
| Wellhead Protection Area | > 1000' |
| Distance to surface water body | > 1000' |

Based on the assessment criteria, the NMOCD established RRALs for this site are:

| | |
|---|---|
| Benzene | 10 mg/kg |
| BTEX | 50 mg/kg |
| TPH | 2,500 mg/kg |
| GRO + DRO | 1,000 mg/kg |
| Chlorides | 20,000 mg/kg |

## V. Soils

USDA Natural Resources Conservation Service (NRCS) classifies soil in the area as Kermit-Berino fine sands, with 0-3% slopes, and very rapid permeability.

## VI. Scope of Work

Stockpiled soils have already begun bioremediation procedures with a microbial product (Liquid Remediact). The bioremediation product was administered to the stockpiled material on September 23, 2020. This consisted of mixing 50 gallons of the product with 500 gallons of water and applying the mixture to the soil within the lined and bermed treatment cells. The impacted material is in approximately a 1-1 ½ foot lift. In order to create greater contact with the mixture, the soil was lightly disked with a tractor and plow the day after application. Based on the treatment date, EOG proposes to perform the first confirmation sampling of the bioremediated soil in January 2021. 5 point composite samples will be collected with 1 sample representative of 100 cubic yards of soil. Once all samples confirm that soils are below the requirements of NMAC 19.15.29.13, they will be used to backfill the excavation. If the soils have not remediated by the January 2021 sampling, another application of the microbial product will be applied in March 2021 with sampling to occur in June 2021.

At the completion of the remediation project, the area will not be reseeded since the battery is still active. When remediation work is completed, a C-141 Closure Report will be submitted to the NMOCD requesting closure of the site.

# Table 1
## Soil Analytical Data

## Soil Analytical Data

| Sample ID | Depth (ft. bgs) | Date | Benzene | Toluene | Ethylbenzene | Xylenes | BTEX | TPH (GRO) | TPH (DRO) | TPH EXT DRO | Total TPH | Chlorides |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| V1-4' | 4 | 8/13/20 | ND | ND | ND | ND | ND | ND | 1100 | 1000 | 2100 | 98 |
| V1-11' | 11 | 8/13/20 | ND | ND | ND | 0.64 | 0.64 | 38 | 1500 | 930 | 2468 | 220 |
| V1-12' | 12 | 9/3/20 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 69 |
| V2-4' | 4 | 8/13/20 | ND | ND | ND | ND | ND | ND | 2000 | 2000 | ND | 95 |
| V2-5' | 5 | 9/3/20 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| V2-11' | 11 | 8/13/20 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 1200 |
| V3-4' | 4 | 8/13/20 | ND | ND | ND | ND | ND | 6.9 | 510 | 510 | 1026.9 | 260 |
| V3-13' | 13 | 8/13/20 | ND | ND | ND | ND | ND | ND | 350 | 840 | 1190 | 61 |
| V3-14' | 14 | 9/3/20 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| V4-4' | 4 | 8/13/20 | ND | ND | ND | ND | ND | ND | 820 | 720 | 1540 | 460 |
| V4-8' | 8 | 8/13/20 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 280 |
| V5-4' | 4 | 8/13/20 | ND | ND | ND | ND | ND | 6.3 | 1400 | 1100 | 2506.3 | 240 |
| V5-5' | 5 | 9/3/20 | ND | ND | ND | ND | ND | ND | 10 | ND | 10 | 120 |
| V5-11' | 11 | 8/13/20 | ND | ND | ND | ND | ND | ND | 120 | 400 | 520 | 410 |
| V5-12' | 12 | 9/3/20 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| V6-4' | 4 | 8/13/20 | ND | ND | ND | ND | ND | ND | 1200 | 950 | 2150 | 270 |
| V6-5' | 5 | 9/3/20 | ND | ND | ND | ND | ND | ND | 9.8 | ND | 9.8 | 120 |
| V6-7' | 7 | 8/13/20 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | | | | | | | | | | | | |
| H1 | 0-4 | 8/13/20 | ND | ND | ND | ND | ND | ND | 35 | ND | 35 | 1000 |
| H1-2 | 0-4 | 9/3/20 | ND | ND | ND | ND | ND | ND | 10 | ND | 10 | 120 |
| H2 | 0-4 | 8/13/20 | 0.13 | 1.4 | 0.92 | 1.0 | 3.45 | 40 | 1400 | 2700 | 4140 | 150 |
| H2-2 | 0-4 | 9/3/20 | ND | ND | ND | ND | ND | ND | 23 | ND | 23 | 200 |
| H3 | 0-4 | 8/13/20 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 260 |
| H4 | 0-4 | 8/13/20 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 290 |
| H5 | 0-4 | 8/13/20 | ND | ND | ND | ND | ND | ND | ND | ND | ND | 290 |
| H6 | 0-4 | 8/13/20 | ND | ND | ND | ND | ND | 21 | 1000 | 660 | 1681 | 140 |
| H6-2 | 0-4 | 9/3/20 | ND | ND | ND | ND | ND | ND | 38 | 72 | 110 | 290 |
| H6-3 | 0-4 | 9/17/20 | ND | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | | | | | | | | | | | | |
| ST-1 | Stockpile | 8/13/20 | ND | ND | ND | ND | ND | 87 | 2500 | 2500 | 5087 | 200 |
| ST-2 | Stockpile | 8/13/20 | ND | ND | ND | ND | ND | 100 | 3500 | 3800 | 7400 | 290 |
| ST-3 | Stockpile | 8/13/20 | ND | ND | ND | ND | ND | 140 | 2800 | 2700 | 5640 | 160 |
| ST-4 | Stockpile | 8/13/20 | ND | ND | ND | ND | ND | 46 | 2200 | 3200 | 5446 | 210 |

# Figure 1
## Site Map with Sample Points


# Photos

# Appendix A
## Soil Sample Laboratory Data

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: clients.hallenvironmental.com*

August 21, 2020

Chase Settle
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Jackson 5 Battery OrderNo.: 2008784

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 6 sample(s) on 8/14/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

**Analytical Report**
Lab Order **2008784**
Date Reported: **8/21/2020**

**CLIENT:** EOG
**Project:** Jackson 5 Battery
**Lab ID:** 2008784-001 **Matrix:** SOIL

**Client Sample ID:** V1-4'
**Collection Date:** 8/13/2020 7:49:00 AM
**Received Date:** 8/14/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JMT** | |
| Chloride | 98 | 60 | | mg/Kg | 20 | 8/18/2020 10:15:13 PM | 54518 |
| **EPA METHOD 8015D MOD: GASOLINE RANGE** | | | | | | Analyst: **JMR** | |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 8/16/2020 10:11:30 PM | 54435 |
| Surr: BFB | 104 | 70-130 | | %Rec | 1 | 8/16/2020 10:11:30 PM | 54435 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** | |
| Diesel Range Organics (DRO) | 1100 | 97 | | mg/Kg | 10 | 8/19/2020 12:42:25 PM | 54468 |
| Motor Oil Range Organics (MRO) | 1000 | 480 | | mg/Kg | 10 | 8/19/2020 12:42:25 PM | 54468 |
| Surr: DNOP | 0 | 30.4-154 | S | %Rec | 10 | 8/19/2020 12:42:25 PM | 54468 |
| **EPA METHOD 8260B: VOLATILES SHORT LIST** | | | | | | Analyst: **JMR** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 8/16/2020 10:11:30 PM | 54435 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 8/16/2020 10:11:30 PM | 54435 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 8/16/2020 10:11:30 PM | 54435 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 8/16/2020 10:11:30 PM | 54435 |
| Surr: 1,2-Dichloroethane-d4 | 92.8 | 70-130 | | %Rec | 1 | 8/16/2020 10:11:30 PM | 54435 |
| Surr: 4-Bromofluorobenzene | 86.0 | 70-130 | | %Rec | 1 | 8/16/2020 10:11:30 PM | 54435 |
| Surr: Dibromofluoromethane | 103 | 70-130 | | %Rec | 1 | 8/16/2020 10:11:30 PM | 54435 |
| Surr: Toluene-d8 | 86.7 | 70-130 | | %Rec | 1 | 8/16/2020 10:11:30 PM | 54435 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Project:** Jackson 5 Battery
**Lab ID:** 2008784-002 **Matrix:** SOIL

**Client Sample ID:** V2-4'
**Collection Date:** 8/13/2020 7:50:00 AM
**Received Date:** 8/14/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JMT** | |
| Chloride | 95 | 60 | | mg/Kg | 20 | 8/18/2020 10:27:33 PM | 54518 |
| **EPA METHOD 8015D MOD: GASOLINE RANGE** | | | | | | Analyst: **JMR** | |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 8/17/2020 12:33:30 AM | 54435 |
| Surr: BFB | 104 | 70-130 | | %Rec | 1 | 8/17/2020 12:33:30 AM | 54435 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** | |
| Diesel Range Organics (DRO) | 2000 | 100 | | mg/Kg | 10 | 8/19/2020 1:10:52 PM | 54468 |
| Motor Oil Range Organics (MRO) | 2000 | 500 | | mg/Kg | 10 | 8/19/2020 1:10:52 PM | 54468 |
| Surr: DNOP | 0 | 30.4-154 | S | %Rec | 10 | 8/19/2020 1:10:52 PM | 54468 |
| **EPA METHOD 8260B: VOLATILES SHORT LIST** | | | | | | Analyst: **JMR** | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 8/17/2020 12:33:30 AM | 54435 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 8/17/2020 12:33:30 AM | 54435 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 8/17/2020 12:33:30 AM | 54435 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 8/17/2020 12:33:30 AM | 54435 |
| Surr: 1,2-Dichloroethane-d4 | 96.8 | 70-130 | | %Rec | 1 | 8/17/2020 12:33:30 AM | 54435 |
| Surr: 4-Bromofluorobenzene | 75.2 | 70-130 | | %Rec | 1 | 8/17/2020 12:33:30 AM | 54435 |
| Surr: Dibromofluoromethane | 106 | 70-130 | | %Rec | 1 | 8/17/2020 12:33:30 AM | 54435 |
| Surr: Toluene-d8 | 86.6 | 70-130 | | %Rec | 1 | 8/17/2020 12:33:30 AM | 54435 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Project:** Jackson 5 Battery
**Lab ID:** 2008784-003 **Matrix:** SOIL

**Client Sample ID:** V3-4'
**Collection Date:** 8/13/2020 7:51:00 AM
**Received Date:** 8/14/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** | |
| Chloride | 260 | 59 | | mg/Kg | 20 | 8/19/2020 10:29:53 AM | 54531 |
| **EPA METHOD 8015D MOD: GASOLINE RANGE** | | | | | | Analyst: **JMR** | |
| Gasoline Range Organics (GRO) | 6.9 | 4.8 | | mg/Kg | 1 | 8/17/2020 3:55:43 PM | 54435 |
| Surr: BFB | 105 | 70-130 | | %Rec | 1 | 8/17/2020 3:55:43 PM | 54435 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** | |
| Diesel Range Organics (DRO) | 510 | 9.9 | | mg/Kg | 1 | 8/20/2020 3:28:46 AM | 54479 |
| Motor Oil Range Organics (MRO) | 510 | 50 | | mg/Kg | 1 | 8/20/2020 3:28:46 AM | 54479 |
| Surr: DNOP | 112 | 30.4-154 | | %Rec | 1 | 8/20/2020 3:28:46 AM | 54479 |
| **EPA METHOD 8260B: VOLATILES SHORT LIST** | | | | | | Analyst: **JMR** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 8/17/2020 1:01:54 AM | 54435 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 8/17/2020 1:01:54 AM | 54435 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 8/17/2020 1:01:54 AM | 54435 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 8/17/2020 1:01:54 AM | 54435 |
| Surr: 1,2-Dichloroethane-d4 | 91.1 | 70-130 | | %Rec | 1 | 8/17/2020 1:01:54 AM | 54435 |
| Surr: 4-Bromofluorobenzene | 87.2 | 70-130 | | %Rec | 1 | 8/17/2020 1:01:54 AM | 54435 |
| Surr: Dibromofluoromethane | 108 | 70-130 | | %Rec | 1 | 8/17/2020 1:01:54 AM | 54435 |
| Surr: Toluene-d8 | 85.2 | 70-130 | | %Rec | 1 | 8/17/2020 1:01:54 AM | 54435 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** V4-4'
**Project:** Jackson 5 Battery
**Collection Date:** 8/13/2020 7:52:00 AM
**Lab ID:** 2008784-004 **Matrix:** SOIL
**Received Date:** 8/14/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** | |
| Chloride | 460 | 59 | | mg/Kg | 20 | 8/19/2020 10:42:14 AM | 54531 |
| **EPA METHOD 8015D MOD: GASOLINE RANGE** | | | | | | Analyst: **JMR** | |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 8/17/2020 1:30:19 AM | 54435 |
| Surr: BFB | 102 | 70-130 | | %Rec | 1 | 8/17/2020 1:30:19 AM | 54435 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **CLP** | |
| Diesel Range Organics (DRO) | 820 | 96 | | mg/Kg | 10 | 8/18/2020 11:08:50 AM | 54479 |
| Motor Oil Range Organics (MRO) | 720 | 480 | | mg/Kg | 10 | 8/18/2020 11:08:50 AM | 54479 |
| Surr: DNOP | 0 | 30.4-154 | S | %Rec | 10 | 8/18/2020 11:08:50 AM | 54479 |
| **EPA METHOD 8260B: VOLATILES SHORT LIST** | | | | | | Analyst: **JMR** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 8/17/2020 1:30:19 AM | 54435 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 8/17/2020 1:30:19 AM | 54435 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 8/17/2020 1:30:19 AM | 54435 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 8/17/2020 1:30:19 AM | 54435 |
| Surr: 1,2-Dichloroethane-d4 | 92.8 | 70-130 | | %Rec | 1 | 8/17/2020 1:30:19 AM | 54435 |
| Surr: 4-Bromofluorobenzene | 98.1 | 70-130 | | %Rec | 1 | 8/17/2020 1:30:19 AM | 54435 |
| Surr: Dibromofluoromethane | 106 | 70-130 | | %Rec | 1 | 8/17/2020 1:30:19 AM | 54435 |
| Surr: Toluene-d8 | 88.5 | 70-130 | | %Rec | 1 | 8/17/2020 1:30:19 AM | 54435 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** V5-4'
**Project:** Jackson 5 Battery
**Collection Date:** 8/13/2020 7:53:00 AM
**Lab ID:** 2008784-005 **Matrix:** SOIL **Received Date:** 8/14/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** | |
| Chloride | 240 | 60 | | mg/Kg | 20 | 8/19/2020 10:54:34 AM | 54531 |
| **EPA METHOD 8015D MOD: GASOLINE RANGE** | | | | | | Analyst: **JMR** | |
| Gasoline Range Organics (GRO) | 6.3 | 5.0 | | mg/Kg | 1 | 8/17/2020 1:58:41 AM | 54435 |
| Surr: BFB | 104 | 70-130 | | %Rec | 1 | 8/17/2020 1:58:41 AM | 54435 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **CLP** | |
| Diesel Range Organics (DRO) | 1400 | 190 | | mg/Kg | 20 | 8/18/2020 11:32:42 AM | 54479 |
| Motor Oil Range Organics (MRO) | 1100 | 970 | | mg/Kg | 20 | 8/18/2020 11:32:42 AM | 54479 |
| Surr: DNOP | 0 | 30.4-154 | S | %Rec | 20 | 8/18/2020 11:32:42 AM | 54479 |
| **EPA METHOD 8260B: VOLATILES SHORT LIST** | | | | | | Analyst: **JMR** | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 8/17/2020 1:58:41 AM | 54435 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 8/17/2020 1:58:41 AM | 54435 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 8/17/2020 1:58:41 AM | 54435 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 8/17/2020 1:58:41 AM | 54435 |
| Surr: 1,2-Dichloroethane-d4 | 93.6 | 70-130 | | %Rec | 1 | 8/17/2020 1:58:41 AM | 54435 |
| Surr: 4-Bromofluorobenzene | 80.6 | 70-130 | | %Rec | 1 | 8/17/2020 1:58:41 AM | 54435 |
| Surr: Dibromofluoromethane | 107 | 70-130 | | %Rec | 1 | 8/17/2020 1:58:41 AM | 54435 |
| Surr: Toluene-d8 | 87.8 | 70-130 | | %Rec | 1 | 8/17/2020 1:58:41 AM | 54435 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Project:** Jackson 5 Battery
**Lab ID:** 2008784-006 **Matrix:** SOIL

**Client Sample ID:** V6-4'
**Collection Date:** 8/13/2020 7:54:00 AM
**Received Date:** 8/14/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** | |
| Chloride | 270 | 60 | | mg/Kg | 20 | 8/19/2020 11:06:55 AM | 54531 |
| **EPA METHOD 8015D MOD: GASOLINE RANGE** | | | | | | Analyst: **JMR** | |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 8/17/2020 2:27:06 AM | 54435 |
| Surr: BFB | 107 | 70-130 | | %Rec | 1 | 8/17/2020 2:27:06 AM | 54435 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **CLP** | |
| Diesel Range Organics (DRO) | 1200 | 94 | | mg/Kg | 10 | 8/18/2020 11:56:37 AM | 54479 |
| Motor Oil Range Organics (MRO) | 950 | 470 | | mg/Kg | 10 | 8/18/2020 11:56:37 AM | 54479 |
| Surr: DNOP | 0 | 30.4-154 | S | %Rec | 10 | 8/18/2020 11:56:37 AM | 54479 |
| **EPA METHOD 8260B: VOLATILES SHORT LIST** | | | | | | Analyst: **JMR** | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 8/17/2020 2:27:06 AM | 54435 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 8/17/2020 2:27:06 AM | 54435 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 8/17/2020 2:27:06 AM | 54435 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 8/17/2020 2:27:06 AM | 54435 |
| Surr: 1,2-Dichloroethane-d4 | 92.0 | 70-130 | | %Rec | 1 | 8/17/2020 2:27:06 AM | 54435 |
| Surr: 4-Bromofluorobenzene | 85.6 | 70-130 | | %Rec | 1 | 8/17/2020 2:27:06 AM | 54435 |
| Surr: Dibromofluoromethane | 110 | 70-130 | | %Rec | 1 | 8/17/2020 2:27:06 AM | 54435 |
| Surr: Toluene-d8 | 86.4 | 70-130 | | %Rec | 1 | 8/17/2020 2:27:06 AM | 54435 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2008784**

*21-Aug-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: **MB-54518** | SampType: **mblk** | TestCode: **EPA Method 300.0: Anions** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **PBS** | Batch ID: **54518** | RunNo: **71174** | | | | | | | |
| Prep Date: **8/18/2020** | Analysis Date: **8/18/2020** | SeqNo: **2481953** | Units: **mg/Kg** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: **LCS-54518** | SampType: **lcs** | TestCode: **EPA Method 300.0: Anions** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **LCSS** | Batch ID: **54518** | RunNo: **71174** | | | | | | | |
| Prep Date: **8/18/2020** | Analysis Date: **8/18/2020** | SeqNo: **2481954** | Units: **mg/Kg** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 93.3 | 90 | 110 | | | |

| Sample ID: **MB-54531** | SampType: **mblk** | TestCode: **EPA Method 300.0: Anions** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **PBS** | Batch ID: **54531** | RunNo: **71209** | | | | | | | |
| Prep Date: **8/19/2020** | Analysis Date: **8/19/2020** | SeqNo: **2484201** | Units: **mg/Kg** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: **LCS-54531** | SampType: **lcs** | TestCode: **EPA Method 300.0: Anions** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **LCSS** | Batch ID: **54531** | RunNo: **71209** | | | | | | | |
| Prep Date: **8/19/2020** | Analysis Date: **8/19/2020** | SeqNo: **2484202** | Units: **mg/Kg** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 92.7 | 90 | 110 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2008784**

*21-Aug-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: **MB-54479** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **54479** | RunNo: **71146** |
| Prep Date: **8/17/2020** | Analysis Date: **8/18/2020** | SeqNo: **2480615** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 10 | | 10.00 | | 100 | 30.4 | 154 | | | |

| Sample ID: **LCS-54479** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **54479** | RunNo: **71146** |
| Prep Date: **8/17/2020** | Analysis Date: **8/18/2020** | SeqNo: **2480617** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 52 | 10 | 50.00 | 0 | 104 | 70 | 130 | | | |
| Surr: DNOP | 4.7 | | 5.000 | | 94.1 | 30.4 | 154 | | | |

| Sample ID: **LCS-54468** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **54468** | RunNo: **71149** |
| Prep Date: **8/17/2020** | Analysis Date: **8/19/2020** | SeqNo: **2482200** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 51 | 10 | 50.00 | 0 | 102 | 70 | 130 | | | |
| Surr: DNOP | 4.9 | | 5.000 | | 97.1 | 30.4 | 154 | | | |

| Sample ID: **MB-54468** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **54468** | RunNo: **71149** |
| Prep Date: **8/17/2020** | Analysis Date: **8/19/2020** | SeqNo: **2482202** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 10 | | 10.00 | | 103 | 30.4 | 154 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2008784**

*21-Aug-20*

**Client:** EOG

**Project:** Jackson 5 Battery

Sample ID: **mb-54435** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **PBS** Batch ID: **54435** RunNo: **71117**

Prep Date: **8/15/2020** Analysis Date: **8/16/2020** SeqNo: **2478960** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.46 | | 0.5000 | | 91.8 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.50 | | 0.5000 | | 101 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.54 | | 0.5000 | | 108 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.46 | | 0.5000 | | 92.3 | 70 | 130 | | | |

Sample ID: **lcs-54435** SampType: **LCS4** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **BatchQC** Batch ID: **54435** RunNo: **71117**

Prep Date: **8/15/2020** Analysis Date: **8/16/2020** SeqNo: **2478961** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.95 | 0.025 | 1.000 | 0 | 95.4 | 80 | 120 | | | |
| Toluene | 0.94 | 0.050 | 1.000 | 0 | 93.5 | 80 | 120 | | | |
| Ethylbenzene | 0.92 | 0.050 | 1.000 | 0 | 92.1 | 80 | 120 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 95.9 | 80 | 120 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.48 | | 0.5000 | | 96.2 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.50 | | 0.5000 | | 99.8 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.55 | | 0.5000 | | 109 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.45 | | 0.5000 | | 89.0 | 70 | 130 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2008784**

*21-Aug-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: **mb-54435** | SampType: **MBLK** | TestCode: **EPA Method 8015D Mod: Gasoline Range** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **54435** | RunNo: **71117** |
| Prep Date: **8/15/2020** | Analysis Date: **8/16/2020** | SeqNo: **2479008** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 520 | | 500.0 | | 105 | 70 | 130 | | | |

| Sample ID: **lcs-54435** | SampType: **LCS** | TestCode: **EPA Method 8015D Mod: Gasoline Range** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **54435** | RunNo: **71117** |
| Prep Date: **8/15/2020** | Analysis Date: **8/16/2020** | SeqNo: **2479009** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 22 | 5.0 | 25.00 | 0 | 87.8 | 70 | 130 | | | |
| Surr: BFB | 530 | | 500.0 | | 107 | 70 | 130 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: clients.hallenvironmental.com*

# Sample Log-In Check List

Client Name: EOG | Work Order Number: 2008784 | RcptNo: 1

Received By: Cheyenne Cason 8/14/2020 8:00:00 AM

Completed By: Emily Mocho 8/14/2020 9:16:07 AM

Reviewed By: SPA 8.14.20

## Chain of Custody

| | | | |
|---|---|---|---|
| 1. Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. How was the sample delivered? | Courier | | |

## Log In

| | | | |
|---|---|---|---|
| 3. Was an attempt made to cool the samples? | Yes ☑ | No ☐ | NA ☐ |
| 4. Were all samples received at a temperature of >0° C to 6.0°C | Yes ☑ | No ☐ | NA ☐ |
| 5. Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 6. Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 7. Are samples (except VOA and ONG) properly preserved? | Yes ☑ | No ☐ | |
| 8. Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 9. Received at least 1 vial with headspace <1/4" for AQ VOA? | Yes ☐ | No ☐ | NA ☑ |
| 10. Were any sample containers received broken? | Yes ☐ | No ☑ | |
| 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | Yes ☑ | No ☐ | |
| 12. Are matrices correctly identified on Chain of Custody? | Yes ☐ | No ☑ | |
| 13. Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 14. Were all holding times able to be met? (If no, notify customer for authorization.) | Yes ☑ | No ☐ | |

10

# of preserved bottles checked for pH: 8/14/20 (<2 or >12 unless noted)

Adjusted?

Checked by:

## Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|---|---|---|---|---|---|---|
| 1 | 1.3 | Good | Not Present | | | |

# Chain-of-Custody Record

Client: EOG Resources

Mailing Address: On File

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush 5 days

Project Name: Jackson #5 Battery

Project #:

Project Manager: Chase Settle

Sampler: Chase Settle

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 13.5+0=13.5 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. 2008784 | BTEX / MTBE / TMB's (8021) | TPH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 PCB's | EDB (Method 504.1) | PAHs by 8310 or 8270SIMS | RCRA 8 Metals | Cl, F, Br, $NO_3$, $NO_2$, $PO_4$, $SO_4$ | 8260 (VOA) | 8270 (Semi-VOA) | Total Coliform (Present/Absent) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8-13-20 | 7:49 | | V1-4' | 4oz Loss / 1 | ICE | 001 | X | X | | | | | X | | | |
| | 7:50 | | V2-4' | 1 | | 002 | | | | | | | | | | |
| | 7:51 | | V3-4' | 1 | | 003 | | | | | | | | | | |
| | 7:52 | | V4-4' | 1 | | 004 | | | | | | | | | | |
| | 7:53 | | V5-4' | 1 | | 005 | | | | | | | | | | |
| | 7:54 | | V6-4' | 1 | | 006 | | | | | | | | | | |

| Date: | Time: | Relinquished by: | Received by: | Via: | Date Time |
|---|---|---|---|---|---|
| 8/13/20 | 10:20 | | | | 8/13/20 1012 |
| 8/13/20 | 1900 | | | | 8/14/20 0808 |

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: clients.hallenvironmental.com*

August 25, 2020

Chase Settle
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Jackson 5 Battery OrderNo.: 2008783

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 4 sample(s) on 8/14/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

**Analytical Report**
Lab Order **2008783**
Date Reported: **8/25/2020**

**CLIENT:** EOG
**Project:** Jackson 5 Battery
**Lab ID:** 2008783-001 **Matrix:** SOIL

**Client Sample ID:** ST-1
**Collection Date:** 8/13/2020 9:00:00 AM
**Received Date:** 8/14/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JMT** | |
| Chloride | 200 | 59 | | mg/Kg | 20 | 8/18/2020 9:01:08 PM | 54518 |
| **EPA METHOD 8015D MOD: GASOLINE RANGE** | | | | | | Analyst: **JMR** | |
| Gasoline Range Organics (GRO) | 87 | 24 | | mg/Kg | 5 | 8/16/2020 7:20:33 PM | 54435 |
| Surr: BFB | 110 | 70-130 | | %Rec | 5 | 8/16/2020 7:20:33 PM | 54435 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** | |
| Diesel Range Organics (DRO) | 2500 | 460 | | mg/Kg | 50 | 8/20/2020 3:04:29 AM | 54468 |
| Motor Oil Range Organics (MRO) | 2500 | 2300 | | mg/Kg | 50 | 8/20/2020 3:04:29 AM | 54468 |
| Surr: DNOP | 0 | 30.4-154 | S | %Rec | 50 | 8/20/2020 3:04:29 AM | 54468 |
| **EPA METHOD 8260B: VOLATILES SHORT LIST** | | | | | | Analyst: **JMR** | |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 8/16/2020 7:20:33 PM | 54435 |
| Toluene | ND | 0.24 | | mg/Kg | 5 | 8/16/2020 7:20:33 PM | 54435 |
| Ethylbenzene | ND | 0.24 | | mg/Kg | 5 | 8/16/2020 7:20:33 PM | 54435 |
| Xylenes, Total | ND | 0.48 | | mg/Kg | 5 | 8/16/2020 7:20:33 PM | 54435 |
| Surr: 1,2-Dichloroethane-d4 | 92.5 | 70-130 | | %Rec | 5 | 8/16/2020 7:20:33 PM | 54435 |
| Surr: 4-Bromofluorobenzene | 69.7 | 70-130 | S | %Rec | 5 | 8/16/2020 7:20:33 PM | 54435 |
| Surr: Dibromofluoromethane | 106 | 70-130 | | %Rec | 5 | 8/16/2020 7:20:33 PM | 54435 |
| Surr: Toluene-d8 | 91.8 | 70-130 | | %Rec | 5 | 8/16/2020 7:20:33 PM | 54435 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Project:** Jackson 5 Battery
**Lab ID:** 2008783-002 **Matrix:** SOIL

**Client Sample ID:** ST-2
**Collection Date:** 8/13/2020 9:03:00 AM
**Received Date:** 8/14/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JMT** | |
| Chloride | 290 | 60 | | mg/Kg | 20 | 8/18/2020 9:13:30 PM | 54518 |
| **EPA METHOD 8015D MOD: GASOLINE RANGE** | | | | | | Analyst: **JMR** | |
| Gasoline Range Organics (GRO) | 100 | 25 | | mg/Kg | 5 | 8/16/2020 4:57:33 PM | 54435 |
| Surr: BFB | 111 | 70-130 | | %Rec | 5 | 8/16/2020 4:57:33 PM | 54435 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** | |
| Diesel Range Organics (DRO) | 3500 | 500 | | mg/Kg | 50 | 8/19/2020 11:29:56 AM | 54468 |
| Motor Oil Range Organics (MRO) | 3800 | 2500 | | mg/Kg | 50 | 8/19/2020 11:29:56 AM | 54468 |
| Surr: DNOP | 0 | 30.4-154 | S | %Rec | 50 | 8/19/2020 11:29:56 AM | 54468 |
| **EPA METHOD 8260B: VOLATILES SHORT LIST** | | | | | | Analyst: **JMR** | |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 8/16/2020 4:57:33 PM | 54435 |
| Toluene | ND | 0.25 | | mg/Kg | 5 | 8/16/2020 4:57:33 PM | 54435 |
| Ethylbenzene | ND | 0.25 | | mg/Kg | 5 | 8/16/2020 4:57:33 PM | 54435 |
| Xylenes, Total | ND | 0.49 | | mg/Kg | 5 | 8/16/2020 4:57:33 PM | 54435 |
| Surr: 1,2-Dichloroethane-d4 | 96.5 | 70-130 | | %Rec | 5 | 8/16/2020 4:57:33 PM | 54435 |
| Surr: 4-Bromofluorobenzene | 70.9 | 70-130 | | %Rec | 5 | 8/16/2020 4:57:33 PM | 54435 |
| Surr: Dibromofluoromethane | 107 | 70-130 | | %Rec | 5 | 8/16/2020 4:57:33 PM | 54435 |
| Surr: Toluene-d8 | 89.5 | 70-130 | | %Rec | 5 | 8/16/2020 4:57:33 PM | 54435 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Project:** Jackson 5 Battery
**Lab ID:** 2008783-003 **Matrix:** SOIL

**Client Sample ID:** ST-3
**Collection Date:** 8/13/2020 9:05:00 AM
**Received Date:** 8/14/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JMT** | |
| Chloride | 160 | 61 | | mg/Kg | 20 | 8/18/2020 9:25:50 PM | 54518 |
| **EPA METHOD 8015D MOD: GASOLINE RANGE** | | | | | | Analyst: **JMR** | |
| Gasoline Range Organics (GRO) | 140 | 25 | | mg/Kg | 5 | 8/16/2020 6:23:23 PM | 54435 |
| Surr: BFB | 112 | 70-130 | | %Rec | 5 | 8/16/2020 6:23:23 PM | 54435 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** | |
| Diesel Range Organics (DRO) | 2800 | 190 | | mg/Kg | 20 | 8/20/2020 6:31:22 PM | 54468 |
| Motor Oil Range Organics (MRO) | 2700 | 930 | | mg/Kg | 20 | 8/20/2020 6:31:22 PM | 54468 |
| Surr: DNOP | 0 | 30.4-154 | S | %Rec | 20 | 8/20/2020 6:31:22 PM | 54468 |
| **EPA METHOD 8260B: VOLATILES SHORT LIST** | | | | | | Analyst: **JMR** | |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 8/16/2020 6:23:23 PM | 54435 |
| Toluene | ND | 0.25 | | mg/Kg | 5 | 8/16/2020 6:23:23 PM | 54435 |
| Ethylbenzene | ND | 0.25 | | mg/Kg | 5 | 8/16/2020 6:23:23 PM | 54435 |
| Xylenes, Total | ND | 0.50 | | mg/Kg | 5 | 8/16/2020 6:23:23 PM | 54435 |
| Surr: 1,2-Dichloroethane-d4 | 95.6 | 70-130 | | %Rec | 5 | 8/16/2020 6:23:23 PM | 54435 |
| Surr: 4-Bromofluorobenzene | 67.4 | 70-130 | S | %Rec | 5 | 8/16/2020 6:23:23 PM | 54435 |
| Surr: Dibromofluoromethane | 110 | 70-130 | | %Rec | 5 | 8/16/2020 6:23:23 PM | 54435 |
| Surr: Toluene-d8 | 88.0 | 70-130 | | %Rec | 5 | 8/16/2020 6:23:23 PM | 54435 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Project:** Jackson 5 Battery
**Lab ID:** 2008783-004 **Matrix:** SOIL

**Client Sample ID:** ST-4
**Collection Date:** 8/13/2020 9:09:00 AM
**Received Date:** 8/14/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JMT** | |
| Chloride | 210 | 61 | | mg/Kg | 20 | 8/18/2020 10:02:52 PM | 54518 |
| **EPA METHOD 8015D MOD: GASOLINE RANGE** | | | | | | Analyst: **JMR** | |
| Gasoline Range Organics (GRO) | 46 | 24 | | mg/Kg | 5 | 8/16/2020 6:51:58 PM | 54435 |
| Surr: BFB | 108 | 70-130 | | %Rec | 5 | 8/16/2020 6:51:58 PM | 54435 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** | |
| Diesel Range Organics (DRO) | 2200 | 470 | | mg/Kg | 50 | 8/20/2020 6:55:47 PM | 54468 |
| Motor Oil Range Organics (MRO) | 3200 | 2300 | | mg/Kg | 50 | 8/20/2020 6:55:47 PM | 54468 |
| Surr: DNOP | 0 | 30.4-154 | S | %Rec | 50 | 8/20/2020 6:55:47 PM | 54468 |
| **EPA METHOD 8260B: VOLATILES SHORT LIST** | | | | | | Analyst: **JMR** | |
| Benzene | ND | 0.12 | | mg/Kg | 5 | 8/16/2020 6:51:58 PM | 54435 |
| Toluene | ND | 0.24 | | mg/Kg | 5 | 8/16/2020 6:51:58 PM | 54435 |
| Ethylbenzene | ND | 0.24 | | mg/Kg | 5 | 8/16/2020 6:51:58 PM | 54435 |
| Xylenes, Total | ND | 0.49 | | mg/Kg | 5 | 8/16/2020 6:51:58 PM | 54435 |
| Surr: 1,2-Dichloroethane-d4 | 92.7 | 70-130 | | %Rec | 5 | 8/16/2020 6:51:58 PM | 54435 |
| Surr: 4-Bromofluorobenzene | 79.2 | 70-130 | | %Rec | 5 | 8/16/2020 6:51:58 PM | 54435 |
| Surr: Dibromofluoromethane | 106 | 70-130 | | %Rec | 5 | 8/16/2020 6:51:58 PM | 54435 |
| Surr: Toluene-d8 | 90.6 | 70-130 | | %Rec | 5 | 8/16/2020 6:51:58 PM | 54435 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2008783**

*25-Aug-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: **MB-54518** | SampType: **mblk** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **54518** | RunNo: **71174** |
| Prep Date: **8/18/2020** | Analysis Date: **8/18/2020** | SeqNo: **2481953** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: **LCS-54518** | SampType: **lcs** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **54518** | RunNo: **71174** |
| Prep Date: **8/18/2020** | Analysis Date: **8/18/2020** | SeqNo: **2481954** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 14 | 1.5 | 15.00 | 0 | 93.3 | 90 | 110 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2008783**

*25-Aug-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: **LCS-54468** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **54468** | RunNo: **71149** |
| Prep Date: **8/17/2020** | Analysis Date: **8/19/2020** | SeqNo: **2482200** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 51 | 10 | 50.00 | 0 | 102 | 70 | 130 | | | |
| Surr: DNOP | 4.9 | | 5.000 | | 97.1 | 30.4 | 154 | | | |

| Sample ID: **MB-54468** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **54468** | RunNo: **71149** |
| Prep Date: **8/17/2020** | Analysis Date: **8/19/2020** | SeqNo: **2482202** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 10 | | 10.00 | | 103 | 30.4 | 154 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2008783

*25-Aug-20*

**Client:** EOG

**Project:** Jackson 5 Battery

Sample ID: **mb-54435** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **PBS** Batch ID: **54435** RunNo: **71117**

Prep Date: **8/15/2020** Analysis Date: **8/16/2020** SeqNo: **2478960** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.46 | | 0.5000 | | 91.8 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.50 | | 0.5000 | | 101 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.54 | | 0.5000 | | 108 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.46 | | 0.5000 | | 92.3 | 70 | 130 | | | |

Sample ID: **lcs-54435** SampType: **LCS4** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **BatchQC** Batch ID: **54435** RunNo: **71117**

Prep Date: **8/15/2020** Analysis Date: **8/16/2020** SeqNo: **2478961** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.95 | 0.025 | 1.000 | 0 | 95.4 | 80 | 120 | | | |
| Toluene | 0.94 | 0.050 | 1.000 | 0 | 93.5 | 80 | 120 | | | |
| Ethylbenzene | 0.92 | 0.050 | 1.000 | 0 | 92.1 | 80 | 120 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 95.9 | 80 | 120 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.48 | | 0.5000 | | 96.2 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.50 | | 0.5000 | | 99.8 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.55 | | 0.5000 | | 109 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.45 | | 0.5000 | | 89.0 | 70 | 130 | | | |

Sample ID: **2008783-001ams** SampType: **MS4** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **ST-1** Batch ID: **54435** RunNo: **71117**

Prep Date: **8/15/2020** Analysis Date: **8/16/2020** SeqNo: **2478972** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 1.0 | 0.12 | 0.9690 | 0 | 105 | 71.1 | 115 | | | |
| Toluene | 1.1 | 0.24 | 0.9690 | 0 | 110 | 79.6 | 132 | | | |
| Ethylbenzene | 1.0 | 0.24 | 0.9690 | 0 | 107 | 83.8 | 134 | | | |
| Xylenes, Total | 3.4 | 0.48 | 2.907 | 0 | 117 | 82.4 | 132 | | | |
| Surr: 1,2-Dichloroethane-d4 | 2.2 | | 2.422 | | 91.8 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 1.8 | | 2.422 | | 74.1 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 2.6 | | 2.422 | | 108 | 70 | 130 | | | |
| Surr: Toluene-d8 | 2.3 | | 2.422 | | 95.2 | 70 | 130 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2008783**

*25-Aug-20*

**Client:** EOG

**Project:** Jackson 5 Battery

Sample ID: **2008783-001amsd** SampType: **MSD4** TestCode: **EPA Method 8260B: Volatiles Short List**

Client ID: **ST-1** Batch ID: **54435** RunNo: **71117**

Prep Date: **8/15/2020** Analysis Date: **8/16/2020** SeqNo: **2478973** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.99 | 0.12 | 0.9891 | 0 | 100 | 71.1 | 115 | 3.19 | 20 | |
| Toluene | 0.96 | 0.25 | 0.9891 | 0 | 97.5 | 79.6 | 132 | 9.98 | 20 | |
| Ethylbenzene | 1.0 | 0.25 | 0.9891 | 0 | 104 | 83.8 | 134 | 1.42 | 20 | |
| Xylenes, Total | 3.2 | 0.49 | 2.967 | 0 | 108 | 82.4 | 132 | 5.88 | 20 | |
| Surr: 1,2-Dichloroethane-d4 | 2.3 | | 2.473 | | 92.0 | 70 | 130 | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 1.8 | | 2.473 | | 72.4 | 70 | 130 | 0 | 0 | |
| Surr: Dibromofluoromethane | 2.6 | | 2.473 | | 105 | 70 | 130 | 0 | 0 | |
| Surr: Toluene-d8 | 2.2 | | 2.473 | | 90.9 | 70 | 130 | 0 | 0 | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2008783**

*25-Aug-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: **mb-54435** | SampType: **MBLK** | TestCode: **EPA Method 8015D Mod: Gasoline Range** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **54435** | RunNo: **71117** |
| Prep Date: **8/15/2020** | Analysis Date: **8/16/2020** | SeqNo: **2479008** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 520 | | 500.0 | | 105 | 70 | 130 | | | |

| Sample ID: **lcs-54435** | SampType: **LCS** | TestCode: **EPA Method 8015D Mod: Gasoline Range** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **54435** | RunNo: **71117** |
| Prep Date: **8/15/2020** | Analysis Date: **8/16/2020** | SeqNo: **2479009** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 22 | 5.0 | 25.00 | 0 | 87.8 | 70 | 130 | | | |
| Surr: BFB | 530 | | 500.0 | | 107 | 70 | 130 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: clients.hallenvironmental.com*

# Sample Log-In Check List

Client Name: EOG | Work Order Number: 2008783 | RcptNo: 1

Received By: Cheyenne Cason 8/14/2020 8:00:00 AM
Completed By: Emily Mocho 8/14/2020 9:09:04 AM
Reviewed By: JCO 8/14/20

## Chain of Custody

| | | | |
|---|---|---|---|
| 1. Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. How was the sample delivered? | Courier | | |

## Log In

| | | | |
|---|---|---|---|
| 3. Was an attempt made to cool the samples? | Yes ☑ | No ☐ | NA ☐ |
| 4. Were all samples received at a temperature of >0° C to 6.0°C | Yes ☑ | No ☐ | NA ☐ |
| 5. Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 6. Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 7. Are samples (except VOA and ONG) properly preserved? | Yes ☑ | No ☐ | |
| 8. Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 9. Received at least 1 vial with headspace <1/4" for AQ VOA? | Yes ☐ | No ☐ | NA ☑ |
| 10. Were any sample containers received broken? | Yes ☐ | No ☑ | |
| 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | Yes ☑ | No ☐ | |
| 12. Are matrices correctly identified on Chain of Custody? | Yes ☐ | No ☑ | |
| 13. Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 14. Were all holding times able to be met? (If no, notify customer for authorization.) | Yes ☑ | No ☐ | |

# of preserved bottles checked for pH: ..... (<2 or >12 unless noted)
Adjusted? .....
Checked by: CMC 8/14/20

## Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: ..... Date: .....
By Whom: ..... Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: .....
Client Instructions: .....

16. Additional remarks:

17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|---|---|---|---|---|---|---|
| 1 | 1.3 | Good | Not Present | | | |

# Chain-of-Custody Record

Client: EOG Resources

Mailing Address: On File

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush 5 day

Project Name: Jackson 5 Battery

Project #:

Project Manager: Chase Settle

Sampler: Chase Settle

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 1.3+0 = 1.3 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. 2008783 | BTEX / MTBE / TMB's (8021) | TPH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 PCB's | EDB (Method 504.1) | PAHs by 8310 or 8270SIMS | RCRA 8 Metals | Cl, F, Br, $NO_3$, $NO_2$, $PO_4$, $SO_4$ | 8260 (VOA) | 8270 (Semi-VOA) | Total Coliform (Present/Absent) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8-13-20 | 9:00 | | ST-1 | 4oz Glass / 1 | ICE | 001 | X | X | | | | | X | | | |
| " | 9:03 | | ST-2 | " / 1 | " | 002 | " | " | | | | | " | | | |
| " | 9:05 | | ST-3 | " / 1 | " | 003 | " | " | | | | | " | | | |
| " | 9:09 | | ST-4 | " / 1 | " | 004 | " | " | | | | | " | | | |

| Date: | Time: | Relinquished by: | Received by: | Via: | Date Time | Remarks: |
|---|---|---|---|---|---|---|
| 8-13-20 | 10:20 | | | | 8/13/20 1020 | |
| 8/13/20 | 1900 | | | Courier | 8/14/20 0800 | |

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: clients.hallenvironmental.com*

August 25, 2020

Chase Settle
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Jackson 5 Battery OrderNo.: 2008785

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 6 sample(s) on 8/14/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

**Analytical Report**
Lab Order **2008785**
Date Reported: **8/25/2020**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** H1
**Project:** Jackson 5 Battery
**Collection Date:** 8/13/2020 8:00:00 AM
**Lab ID:** 2008785-001 **Matrix:** SOIL
**Received Date:** 8/14/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** | |
| Chloride | 1000 | 60 | | mg/Kg | 20 | 8/19/2020 11:19:14 AM | 54531 |
| **EPA METHOD 8015D MOD: GASOLINE RANGE** | | | | | | Analyst: **JMR** | |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 8/17/2020 2:55:30 AM | 54435 |
| Surr: BFB | 105 | 70-130 | | %Rec | 1 | 8/17/2020 2:55:30 AM | 54435 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **CLP** | |
| Diesel Range Organics (DRO) | 35 | 9.6 | | mg/Kg | 1 | 8/18/2020 12:20:32 PM | 54479 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 8/18/2020 12:20:32 PM | 54479 |
| Surr: DNOP | 96.3 | 30.4-154 | | %Rec | 1 | 8/18/2020 12:20:32 PM | 54479 |
| **EPA METHOD 8260B: VOLATILES SHORT LIST** | | | | | | Analyst: **JMR** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 8/17/2020 2:55:30 AM | 54435 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 8/17/2020 2:55:30 AM | 54435 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 8/17/2020 2:55:30 AM | 54435 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 8/17/2020 2:55:30 AM | 54435 |
| Surr: 1,2-Dichloroethane-d4 | 91.9 | 70-130 | | %Rec | 1 | 8/17/2020 2:55:30 AM | 54435 |
| Surr: 4-Bromofluorobenzene | 100 | 70-130 | | %Rec | 1 | 8/17/2020 2:55:30 AM | 54435 |
| Surr: Dibromofluoromethane | 101 | 70-130 | | %Rec | 1 | 8/17/2020 2:55:30 AM | 54435 |
| Surr: Toluene-d8 | 87.1 | 70-130 | | %Rec | 1 | 8/17/2020 2:55:30 AM | 54435 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** H2
**Project:** Jackson 5 Battery
**Collection Date:** 8/13/2020 8:02:00 AM
**Lab ID:** 2008785-002 **Matrix:** SOIL
**Received Date:** 8/14/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** | |
| Chloride | 150 | 60 | | mg/Kg | 20 | 8/19/2020 11:31:35 AM | 54531 |
| **EPA METHOD 8015D MOD: GASOLINE RANGE** | | | | | | Analyst: **JMR** | |
| Gasoline Range Organics (GRO) | 40 | 5.0 | | mg/Kg | 1 | 8/17/2020 3:23:54 AM | 54435 |
| Surr: BFB | 101 | 70-130 | | %Rec | 1 | 8/17/2020 3:23:54 AM | 54435 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** | |
| Diesel Range Organics (DRO) | 1400 | 200 | | mg/Kg | 20 | 8/20/2020 8:09:01 PM | 54479 |
| Motor Oil Range Organics (MRO) | 2700 | 1000 | | mg/Kg | 20 | 8/20/2020 8:09:01 PM | 54479 |
| Surr: DNOP | 0 | 30.4-154 | S | %Rec | 20 | 8/20/2020 8:09:01 PM | 54479 |
| **EPA METHOD 8260B: VOLATILES SHORT LIST** | | | | | | Analyst: **JMR** | |
| Benzene | 0.13 | 0.025 | | mg/Kg | 1 | 8/17/2020 3:23:54 AM | 54435 |
| Toluene | 1.4 | 0.050 | | mg/Kg | 1 | 8/17/2020 3:23:54 AM | 54435 |
| Ethylbenzene | 0.92 | 0.050 | | mg/Kg | 1 | 8/17/2020 3:23:54 AM | 54435 |
| Xylenes, Total | 1.0 | 0.099 | | mg/Kg | 1 | 8/17/2020 3:23:54 AM | 54435 |
| Surr: 1,2-Dichloroethane-d4 | 101 | 70-130 | | %Rec | 1 | 8/17/2020 3:23:54 AM | 54435 |
| Surr: 4-Bromofluorobenzene | 101 | 70-130 | | %Rec | 1 | 8/17/2020 3:23:54 AM | 54435 |
| Surr: Dibromofluoromethane | 111 | 70-130 | | %Rec | 1 | 8/17/2020 3:23:54 AM | 54435 |
| Surr: Toluene-d8 | 86.0 | 70-130 | | %Rec | 1 | 8/17/2020 3:23:54 AM | 54435 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Project:** Jackson 5 Battery
**Lab ID:** 2008785-003 **Matrix:** SOIL

**Client Sample ID:** H3
**Collection Date:** 8/13/2020 8:04:00 AM
**Received Date:** 8/14/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** | |
| Chloride | 260 | 60 | | mg/Kg | 20 | 8/19/2020 11:43:55 AM | 54531 |
| **EPA METHOD 8015D MOD: GASOLINE RANGE** | | | | | | Analyst: **JMR** | |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 8/17/2020 3:52:19 AM | 54435 |
| Surr: BFB | 106 | 70-130 | | %Rec | 1 | 8/17/2020 3:52:19 AM | 54435 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **CLP** | |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 8/18/2020 1:08:26 PM | 54479 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 8/18/2020 1:08:26 PM | 54479 |
| Surr: DNOP | 102 | 30.4-154 | | %Rec | 1 | 8/18/2020 1:08:26 PM | 54479 |
| **EPA METHOD 8260B: VOLATILES SHORT LIST** | | | | | | Analyst: **JMR** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 8/17/2020 3:52:19 AM | 54435 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 8/17/2020 3:52:19 AM | 54435 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 8/17/2020 3:52:19 AM | 54435 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 8/17/2020 3:52:19 AM | 54435 |
| Surr: 1,2-Dichloroethane-d4 | 97.8 | 70-130 | | %Rec | 1 | 8/17/2020 3:52:19 AM | 54435 |
| Surr: 4-Bromofluorobenzene | 104 | 70-130 | | %Rec | 1 | 8/17/2020 3:52:19 AM | 54435 |
| Surr: Dibromofluoromethane | 109 | 70-130 | | %Rec | 1 | 8/17/2020 3:52:19 AM | 54435 |
| Surr: Toluene-d8 | 89.0 | 70-130 | | %Rec | 1 | 8/17/2020 3:52:19 AM | 54435 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Project:** Jackson 5 Battery
**Lab ID:** 2008785-004 **Matrix:** SOIL

**Client Sample ID:** H4
**Collection Date:** 8/13/2020 8:05:00 AM
**Received Date:** 8/14/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** | |
| Chloride | 290 | 60 | | mg/Kg | 20 | 8/19/2020 11:56:15 AM | 54531 |
| **EPA METHOD 8015D MOD: GASOLINE RANGE** | | | | | | Analyst: **JMR** | |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 8/17/2020 4:20:45 AM | 54435 |
| Surr: BFB | 108 | 70-130 | | %Rec | 1 | 8/17/2020 4:20:45 AM | 54435 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **CLP** | |
| Diesel Range Organics (DRO) | ND | 9.6 | | mg/Kg | 1 | 8/18/2020 1:32:22 PM | 54479 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 8/18/2020 1:32:22 PM | 54479 |
| Surr: DNOP | 96.2 | 30.4-154 | | %Rec | 1 | 8/18/2020 1:32:22 PM | 54479 |
| **EPA METHOD 8260B: VOLATILES SHORT LIST** | | | | | | Analyst: **JMR** | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 8/17/2020 4:20:45 AM | 54435 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 8/17/2020 4:20:45 AM | 54435 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 8/17/2020 4:20:45 AM | 54435 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 8/17/2020 4:20:45 AM | 54435 |
| Surr: 1,2-Dichloroethane-d4 | 90.2 | 70-130 | | %Rec | 1 | 8/17/2020 4:20:45 AM | 54435 |
| Surr: 4-Bromofluorobenzene | 101 | 70-130 | | %Rec | 1 | 8/17/2020 4:20:45 AM | 54435 |
| Surr: Dibromofluoromethane | 104 | 70-130 | | %Rec | 1 | 8/17/2020 4:20:45 AM | 54435 |
| Surr: Toluene-d8 | 88.6 | 70-130 | | %Rec | 1 | 8/17/2020 4:20:45 AM | 54435 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** H5
**Project:** Jackson 5 Battery
**Collection Date:** 8/13/2020 8:07:00 AM
**Lab ID:** 2008785-005 **Matrix:** SOIL
**Received Date:** 8/14/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** | |
| Chloride | 290 | 60 | | mg/Kg | 20 | 8/19/2020 12:58:00 PM | 54531 |
| **EPA METHOD 8015D MOD: GASOLINE RANGE** | | | | | | Analyst: **JMR** | |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 8/17/2020 4:49:12 AM | 54435 |
| Surr: BFB | 102 | 70-130 | | %Rec | 1 | 8/17/2020 4:49:12 AM | 54435 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **CLP** | |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 8/18/2020 1:56:21 PM | 54479 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 8/18/2020 1:56:21 PM | 54479 |
| Surr: DNOP | 96.1 | 30.4-154 | | %Rec | 1 | 8/18/2020 1:56:21 PM | 54479 |
| **EPA METHOD 8260B: VOLATILES SHORT LIST** | | | | | | Analyst: **JMR** | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 8/17/2020 4:49:12 AM | 54435 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 8/17/2020 4:49:12 AM | 54435 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 8/17/2020 4:49:12 AM | 54435 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 8/17/2020 4:49:12 AM | 54435 |
| Surr: 1,2-Dichloroethane-d4 | 98.6 | 70-130 | | %Rec | 1 | 8/17/2020 4:49:12 AM | 54435 |
| Surr: 4-Bromofluorobenzene | 102 | 70-130 | | %Rec | 1 | 8/17/2020 4:49:12 AM | 54435 |
| Surr: Dibromofluoromethane | 109 | 70-130 | | %Rec | 1 | 8/17/2020 4:49:12 AM | 54435 |
| Surr: Toluene-d8 | 89.5 | 70-130 | | %Rec | 1 | 8/17/2020 4:49:12 AM | 54435 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Project:** Jackson 5 Battery
**Lab ID:** 2008785-006 **Matrix:** SOIL

**Client Sample ID:** H6
**Collection Date:** 8/13/2020 8:08:00 AM
**Received Date:** 8/14/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: | **CAS** |
| Chloride | 140 | 59 | | mg/Kg | 20 | 8/19/2020 1:10:20 PM | 54531 |
| **EPA METHOD 8015D MOD: GASOLINE RANGE** | | | | | | Analyst: | **JMR** |
| Gasoline Range Organics (GRO) | 21 | 4.9 | | mg/Kg | 1 | 8/17/2020 5:17:46 AM | 54435 |
| Surr: BFB | 110 | 70-130 | | %Rec | 1 | 8/17/2020 5:17:46 AM | 54435 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: | **CLP** |
| Diesel Range Organics (DRO) | 1000 | 97 | | mg/Kg | 10 | 8/18/2020 2:20:18 PM | 54479 |
| Motor Oil Range Organics (MRO) | 660 | 490 | | mg/Kg | 10 | 8/18/2020 2:20:18 PM | 54479 |
| Surr: DNOP | 0 | 30.4-154 | S | %Rec | 10 | 8/18/2020 2:20:18 PM | 54479 |
| **EPA METHOD 8260B: VOLATILES SHORT LIST** | | | | | | Analyst: | **JMR** |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 8/17/2020 5:17:46 AM | 54435 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 8/17/2020 5:17:46 AM | 54435 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 8/17/2020 5:17:46 AM | 54435 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 8/17/2020 5:17:46 AM | 54435 |
| Surr: 1,2-Dichloroethane-d4 | 93.0 | 70-130 | | %Rec | 1 | 8/17/2020 5:17:46 AM | 54435 |
| Surr: 4-Bromofluorobenzene | 70.6 | 70-130 | | %Rec | 1 | 8/17/2020 5:17:46 AM | 54435 |
| Surr: Dibromofluoromethane | 105 | 70-130 | | %Rec | 1 | 8/17/2020 5:17:46 AM | 54435 |
| Surr: Toluene-d8 | 87.5 | 70-130 | | %Rec | 1 | 8/17/2020 5:17:46 AM | 54435 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2008785**

*25-Aug-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: **MB-54531** | SampType: **mblk** | TestCode: **EPA Method 300.0: Anions** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **PBS** | Batch ID: **54531** | RunNo: **71209** | | | | | | | |
| Prep Date: **8/19/2020** | Analysis Date: **8/19/2020** | SeqNo: **2484201** | Units: **mg/Kg** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: **LCS-54531** | SampType: **lcs** | TestCode: **EPA Method 300.0: Anions** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **LCSS** | Batch ID: **54531** | RunNo: **71209** | | | | | | | |
| Prep Date: **8/19/2020** | Analysis Date: **8/19/2020** | SeqNo: **2484202** | Units: **mg/Kg** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | 14 | 1.5 | 15.00 | 0 | 92.7 | 90 | 110 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2008785**

*25-Aug-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: **MB-54479** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **54479** | RunNo: **71146** |
| Prep Date: **8/17/2020** | Analysis Date: **8/18/2020** | SeqNo: **2480615** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 10 | | 10.00 | | 100 | 30.4 | 154 | | | |

| Sample ID: **LCS-54479** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **54479** | RunNo: **71146** |
| Prep Date: **8/17/2020** | Analysis Date: **8/18/2020** | SeqNo: **2480617** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 52 | 10 | 50.00 | 0 | 104 | 70 | 130 | | | |
| Surr: DNOP | 4.7 | | 5.000 | | 94.1 | 30.4 | 154 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2008785**

*25-Aug-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: **mb-54435** | SampType: **MBLK** | TestCode: **EPA Method 8260B: Volatiles Short List** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **54435** | RunNo: **71117** |
| Prep Date: **8/15/2020** | Analysis Date: **8/16/2020** | SeqNo: **2478960** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.46 | | 0.5000 | | 91.8 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.50 | | 0.5000 | | 101 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.54 | | 0.5000 | | 108 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.46 | | 0.5000 | | 92.3 | 70 | 130 | | | |

| Sample ID: **lcs-54435** | SampType: **LCS4** | TestCode: **EPA Method 8260B: Volatiles Short List** |
|---|---|---|
| Client ID: **BatchQC** | Batch ID: **54435** | RunNo: **71117** |
| Prep Date: **8/15/2020** | Analysis Date: **8/16/2020** | SeqNo: **2478961** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.95 | 0.025 | 1.000 | 0 | 95.4 | 80 | 120 | | | |
| Toluene | 0.94 | 0.050 | 1.000 | 0 | 93.5 | 80 | 120 | | | |
| Ethylbenzene | 0.92 | 0.050 | 1.000 | 0 | 92.1 | 80 | 120 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 95.9 | 80 | 120 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.48 | | 0.5000 | | 96.2 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.50 | | 0.5000 | | 99.8 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 0.55 | | 0.5000 | | 109 | 70 | 130 | | | |
| Surr: Toluene-d8 | 0.45 | | 0.5000 | | 89.0 | 70 | 130 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2008785**

*25-Aug-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: **mb-54435** | SampType: **MBLK** | TestCode: **EPA Method 8015D Mod: Gasoline Range** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **54435** | RunNo: **71117** |
| Prep Date: **8/15/2020** | Analysis Date: **8/16/2020** | SeqNo: **2479008** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 520 | | 500.0 | | 105 | 70 | 130 | | | |

| Sample ID: **lcs-54435** | SampType: **LCS** | TestCode: **EPA Method 8015D Mod: Gasoline Range** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **54435** | RunNo: **71117** |
| Prep Date: **8/15/2020** | Analysis Date: **8/16/2020** | SeqNo: **2479009** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 22 | 5.0 | 25.00 | 0 | 87.8 | 70 | 130 | | | |
| Surr: BFB | 530 | | 500.0 | | 107 | 70 | 130 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: clients.hallenvironmental.com*

# Sample Log-In Check List

Client Name: EOG | Work Order Number: 2008785 | RcptNo: 1

Received By: Cheyenne Cason 8/14/2020 8:00:00 AM
Completed By: Emily Mocho 8/14/2020 9:31:33 AM
Reviewed By: SPA 8.14.20

## Chain of Custody

| | | | |
|---|---|---|---|
| 1. Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. How was the sample delivered? | Courier | | |

## Log In

| | | | |
|---|---|---|---|
| 3. Was an attempt made to cool the samples? | Yes ☑ | No ☐ | NA ☐ |
| 4. Were all samples received at a temperature of >0° C to 6.0°C | Yes ☑ | No ☐ | NA ☐ |
| 5. Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 6. Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 7. Are samples (except VOA and ONG) properly preserved? | Yes ☑ | No ☐ | |
| 8. Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 9. Received at least 1 vial with headspace <1/4" for AQ VOA? | Yes ☐ | No ☐ | NA ☑ |
| 10. Were any sample containers received broken? | Yes ☐ | No ☑ | |
| 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | Yes ☑ | No ☐ | |
| 12. Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | |
| 13. Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 14. Were all holding times able to be met? (If no, notify customer for authorization.) | Yes ☑ | No ☐ | |

NO

# of preserved bottles checked for pH: 8/14/20 (<2 or >12 unless noted)
Adjusted?
Checked by:

## Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|---|---|---|---|---|---|---|
| 1 | 1.3 | Good | Not Present | | | |

# Chain-of-Custody Record

Client: EOG Resources

Mailing Address: On File

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 5 day
☑ Standard ☐ Rush

Project Name: Jackson 5 Battery

Project #:

Project Manager: Chase Settle

Sampler: Chase Settle

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 1 +0 = 1 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. 2008200 | BTEX / MTBE / TMB's (8021) | TPH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 PCB's | EDB (Method 504.1) | PAHs by 8310 or 8270SIMS | RCRA 8 Metals | Cl, F, Br, $NO_3$, $NO_2$, $PO_4$, $SO_4$ | 8260 (VOA) | 8270 (Semi-VOA) | Total Coliform (Present/Absent) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8-13-20 | 8:00 | | H1 | 4oz Glass 1 | ICE | 001 | X | X | | | | | X | | | |
| | 8:02 | | H2 | 1 | | 002 | | | | | | | | | | |
| | 8:04 | | H3 | 1 | | 003 | | | | | | | | | | |
| | 8:05 | | H4 | 1 | | 004 | | | | | | | | | | |
| | 8:07 | | H5 | 1 | | 005 | | | | | | | | | | |
| | 8:08 | | H6 | 1 | | 006 | | | | | | | | | | |

Analysis Request

| Date: | Time: | Relinquished by: | Received by: | Via: | Date | Time |
|---|---|---|---|---|---|---|
| 8-13-20 | 10:20 | | | | 8/13/20 | 1020 |
| 8/13/20 | 1900 | | CHC | Courier | 8/14/20 | 0800 |

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: clients.hallenvironmental.com*

September 01, 2020

Chase Settle
EOG
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4195
FAX

RE: Jackson 5 Battery OrderNo.: 2008C38

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 6 sample(s) on 8/22/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Project:** Jackson 5 Battery
**Lab ID:** 2008C38-001 **Matrix:** SOIL

**Client Sample ID:** V1-11'
**Collection Date:** 8/13/2020 8:24:00 AM
**Received Date:** 8/22/2020 8:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** |
| Diesel Range Organics (DRO) | 1500 | 48 | | mg/Kg | 5 | 8/27/2020 11:16:36 AM |
| Motor Oil Range Organics (MRO) | 930 | 240 | | mg/Kg | 5 | 8/27/2020 11:16:36 AM |
| Surr: DNOP | 111 | 30.4-154 | | %Rec | 5 | 8/27/2020 11:16:36 AM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | 38 | 24 | | mg/Kg | 5 | 8/25/2020 11:56:03 PM |
| Surr: BFB | 159 | 75.3-105 | S | %Rec | 5 | 8/25/2020 11:56:03 PM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.12 | D | mg/Kg | 5 | 8/25/2020 11:56:03 PM |
| Toluene | ND | 0.24 | D | mg/Kg | 5 | 8/25/2020 11:56:03 PM |
| Ethylbenzene | ND | 0.24 | D | mg/Kg | 5 | 8/25/2020 11:56:03 PM |
| Xylenes, Total | 0.64 | 0.48 | D | mg/Kg | 5 | 8/25/2020 11:56:03 PM |
| Surr: 4-Bromofluorobenzene | 107 | 80-120 | D | %Rec | 5 | 8/25/2020 11:56:03 PM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JMT** |
| Chloride | 220 | 60 | | mg/Kg | 20 | 8/28/2020 2:18:41 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Project:** Jackson 5 Battery
**Lab ID:** 2008C38-002 **Matrix:** SOIL

**Client Sample ID:** V2-11
**Collection Date:** 8/13/2020 8:33:00 AM
**Received Date:** 8/22/2020 8:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 8/26/2020 12:33:46 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 8/26/2020 12:33:46 PM |
| Surr: DNOP | 83.6 | 30.4-154 | | %Rec | 1 | 8/26/2020 12:33:46 PM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 8/26/2020 12:19:27 AM |
| Surr: BFB | 96.7 | 75.3-105 | | %Rec | 1 | 8/26/2020 12:19:27 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 8/26/2020 12:19:27 AM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 8/26/2020 12:19:27 AM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 8/26/2020 12:19:27 AM |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 8/26/2020 12:19:27 AM |
| Surr: 4-Bromofluorobenzene | 104 | 80-120 | | %Rec | 1 | 8/26/2020 12:19:27 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JMT** |
| Chloride | 1200 | 59 | | mg/Kg | 20 | 8/28/2020 2:55:55 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Project:** Jackson 5 Battery
**Lab ID:** 2008C38-003 **Matrix:** SOIL

**Client Sample ID:** V3-13'
**Collection Date:** 8/13/2020 8:40:00 AM
**Received Date:** 8/22/2020 8:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** |
| Diesel Range Organics (DRO) | 350 | 99 | | mg/Kg | 10 | 8/27/2020 11:40:38 AM |
| Motor Oil Range Organics (MRO) | 840 | 500 | | mg/Kg | 10 | 8/27/2020 11:40:38 AM |
| Surr: DNOP | 0 | 30.4-154 | S | %Rec | 10 | 8/27/2020 11:40:38 AM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 24 | D | mg/Kg | 5 | 8/26/2020 12:42:57 AM |
| Surr: BFB | 97.4 | 75.3-105 | D | %Rec | 5 | 8/26/2020 12:42:57 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.12 | D | mg/Kg | 5 | 8/26/2020 12:42:57 AM |
| Toluene | ND | 0.24 | D | mg/Kg | 5 | 8/26/2020 12:42:57 AM |
| Ethylbenzene | ND | 0.24 | D | mg/Kg | 5 | 8/26/2020 12:42:57 AM |
| Xylenes, Total | ND | 0.48 | D | mg/Kg | 5 | 8/26/2020 12:42:57 AM |
| Surr: 4-Bromofluorobenzene | 99.0 | 80-120 | D | %Rec | 5 | 8/26/2020 12:42:57 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JMT** |
| Chloride | 61 | 60 | | mg/Kg | 20 | 8/28/2020 3:08:19 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Project:** Jackson 5 Battery
**Lab ID:** 2008C38-004 **Matrix:** SOIL

**Client Sample ID:** V4-8'
**Collection Date:** 8/13/2020 8:45:00 AM
**Received Date:** 8/22/2020 8:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** |
| Diesel Range Organics (DRO) | ND | 9.1 | | mg/Kg | 1 | 8/26/2020 12:53:19 PM |
| Motor Oil Range Organics (MRO) | ND | 45 | | mg/Kg | 1 | 8/26/2020 12:53:19 PM |
| Surr: DNOP | 90.2 | 30.4-154 | | %Rec | 1 | 8/26/2020 12:53:19 PM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 8/26/2020 1:06:23 AM |
| Surr: BFB | 97.4 | 75.3-105 | | %Rec | 1 | 8/26/2020 1:06:23 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 8/26/2020 1:06:23 AM |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 8/26/2020 1:06:23 AM |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 8/26/2020 1:06:23 AM |
| Xylenes, Total | ND | 0.092 | | mg/Kg | 1 | 8/26/2020 1:06:23 AM |
| Surr: 4-Bromofluorobenzene | 102 | 80-120 | | %Rec | 1 | 8/26/2020 1:06:23 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JMT** |
| Chloride | 280 | 60 | | mg/Kg | 20 | 8/28/2020 3:20:44 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** V5-11'
**Project:** Jackson 5 Battery
**Collection Date:** 8/13/2020 8:50:00 AM
**Lab ID:** 2008C38-005 **Matrix:** SOIL
**Received Date:** 8/22/2020 8:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** |
| Diesel Range Organics (DRO) | 120 | 47 | | mg/Kg | 5 | 8/28/2020 3:16:53 PM |
| Motor Oil Range Organics (MRO) | 400 | 230 | | mg/Kg | 5 | 8/28/2020 3:16:53 PM |
| Surr: DNOP | 95.3 | 30.4-154 | | %Rec | 5 | 8/28/2020 3:16:53 PM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 8/26/2020 1:29:43 AM |
| Surr: BFB | 96.8 | 75.3-105 | | %Rec | 1 | 8/26/2020 1:29:43 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 8/26/2020 1:29:43 AM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 8/26/2020 1:29:43 AM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 8/26/2020 1:29:43 AM |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 8/26/2020 1:29:43 AM |
| Surr: 4-Bromofluorobenzene | 100 | 80-120 | | %Rec | 1 | 8/26/2020 1:29:43 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JMT** |
| Chloride | 410 | 60 | | mg/Kg | 20 | 8/28/2020 3:33:09 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Project:** Jackson 5 Battery
**Lab ID:** 2008C38-006 **Matrix:** SOIL

**Client Sample ID:** V6-7'
**Collection Date:** 8/13/2020 8:54:00 AM
**Received Date:** 8/22/2020 8:50:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** |
| Diesel Range Organics (DRO) | ND | 9.0 | | mg/Kg | 1 | 8/26/2020 1:13:10 PM |
| Motor Oil Range Organics (MRO) | ND | 45 | | mg/Kg | 1 | 8/26/2020 1:13:10 PM |
| Surr: DNOP | 84.6 | 30.4-154 | | %Rec | 1 | 8/26/2020 1:13:10 PM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 8/26/2020 1:53:12 AM |
| Surr: BFB | 98.1 | 75.3-105 | | %Rec | 1 | 8/26/2020 1:53:12 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 8/26/2020 1:53:12 AM |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 8/26/2020 1:53:12 AM |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 8/26/2020 1:53:12 AM |
| Xylenes, Total | ND | 0.091 | | mg/Kg | 1 | 8/26/2020 1:53:12 AM |
| Surr: 4-Bromofluorobenzene | 103 | 80-120 | | %Rec | 1 | 8/26/2020 1:53:12 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JMT** |
| Chloride | ND | 60 | | mg/Kg | 20 | 8/28/2020 3:45:33 PM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2008C38**

*01-Sep-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: **MB-54753** | SampType: **mblk** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **54753** | RunNo: **71445** |
| Prep Date: **8/28/2020** | Analysis Date: **8/28/2020** | SeqNo: **2495153** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: **LCS-54753** | SampType: **lcs** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **54753** | RunNo: **71445** |
| Prep Date: **8/28/2020** | Analysis Date: **8/28/2020** | SeqNo: **2495154** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 14 | 1.5 | 15.00 | 0 | 96.0 | 90 | 110 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2008C38**

*01-Sep-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: **LCS-54659** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **54659** | RunNo: **71390** |
| Prep Date: **8/25/2020** | Analysis Date: **8/26/2020** | SeqNo: **2492004** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 36 | 10 | 50.00 | 0 | 72.8 | 70 | 130 | | | |
| Surr: DNOP | 4.5 | | 5.000 | | 89.2 | 30.4 | 154 | | | |

| Sample ID: **MB-54659** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **54659** | RunNo: **71390** |
| Prep Date: **8/25/2020** | Analysis Date: **8/26/2020** | SeqNo: **2492008** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 8.7 | | 10.00 | | 86.6 | 30.4 | 154 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2008C38**

*01-Sep-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: **mb-54637** | SampType: **MBLK** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **54637** | RunNo: **71325** |
| Prep Date: **8/24/2020** | Analysis Date: **8/25/2020** | SeqNo: **2489927** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 960 | | 1000 | | 95.7 | 75.3 | 105 | | | |

| Sample ID: **lcs-54637** | SampType: **LCS** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **54637** | RunNo: **71325** |
| Prep Date: **8/24/2020** | Analysis Date: **8/25/2020** | SeqNo: **2489928** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 20 | 5.0 | 25.00 | 0 | 79.6 | 72.5 | 106 | | | |
| Surr: BFB | 1100 | | 1000 | | 110 | 75.3 | 105 | | | S |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2008C38**

*01-Sep-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: **mb-54637** | SampType: **MBLK** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **54637** | RunNo: **71325** |
| Prep Date: **8/24/2020** | Analysis Date: **8/25/2020** | SeqNo: **2489973** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 99.4 | 80 | 120 | | | |

| Sample ID: **LCS-54637** | SampType: **LCS** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **54637** | RunNo: **71325** |
| Prep Date: **8/24/2020** | Analysis Date: **8/25/2020** | SeqNo: **2489974** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.89 | 0.025 | 1.000 | 0 | 89.0 | 80 | 120 | | | |
| Toluene | 0.90 | 0.050 | 1.000 | 0 | 89.9 | 80 | 120 | | | |
| Ethylbenzene | 0.91 | 0.050 | 1.000 | 0 | 91.2 | 80 | 120 | | | |
| Xylenes, Total | 2.7 | 0.10 | 3.000 | 0 | 91.0 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 103 | 80 | 120 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: clients.hallenvironmental.com*

# Sample Log-In Check List

Client Name: EOG Resources Work Order Number: 2008C38 RcptNo: 1

Received By: Juan Rojas 8/22/2020 8:50:00 AM

Completed By: Juan Rojas 8/22/2020 10:53:41 AM

Reviewed By:

## Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

## Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: JR 8/22/20

## Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|---|---|---|---|---|---|---|
| 1 | 0.4 | Good | | | | |
| 2 | 0.3 | Good | | | | |

# Chain-of-Custody Record

Client: EOG Resources

Mailing Address: On File

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush 5 day Turn

Project Name: Jackson 5 Battery

Project #:

Project Manager: Chase Settle

Sampler: Chase Settle

On Ice: ☑ Yes ☐ No

# of Coolers: 2

Cooler Temp (Initial): 0.1+0=0.1 (°C)

CF: 0-0.3 HEAL No. 2008C38

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. | BTEX / MTBE / TMB's (8021) | TPH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 PCB's | EDB (Method 504.1) | PAHs by 8310 or 8270SIMS | RCRA 8 Metals | Cl, F, Br, $NO_3$, $NO_2$, $PO_4$, $SO_4$ | 8260 (VOA) | 8270 (Semi-VOA) | Total Coliform (Present/Absent) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8/13/20 | 8:24 | Soil | V1-11' | 4oz Glass/1 | ICE | -001 | X | X | | | | | X | | | |
| | 8:33 | | V2-11' | | | -002 | | | | | | | | | | |
| | 8:40 | | V3-13' | | | -003 | | | | | | | | | | |
| | 8:45 | | V4-8' | | | -004 | | | | | | | | | | |
| | 8:50 | | V5-11' | | | -005 | | | | | | | | | | |
| | 8:54 | | V6-7' | | | -006 | | | | | | | | | | |

| Date: | Time: | Relinquished by: | Received by: | Via: | Date Time |
|---|---|---|---|---|---|
| 8/21/20 | 0900 | | | | 8/21/20 0900 |
| 8/21/20 | 1900 | Cummings | | courier | 8/22/20 8:50 |

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: clients.hallenvironmental.com*

September 14, 2020

Chase Settle
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Jackson 5 Battery OrderNo.: 2009308

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 3 sample(s) on 9/4/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** H1-2
**Project:** Jackson 5 Battery
**Collection Date:** 9/3/2020 8:08:00 AM
**Lab ID:** 2009308-001 **Matrix:** SOIL
**Received Date:** 9/4/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** | |
| Chloride | 120 | 60 | | mg/Kg | 20 | 9/11/2020 10:43:04 PM | 55110 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** | |
| Diesel Range Organics (DRO) | 10 | 10 | | mg/Kg | 1 | 9/9/2020 4:31:58 AM | 54972 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 9/9/2020 4:31:58 AM | 54972 |
| Surr: DNOP | 94.1 | 30.4-154 | | %Rec | 1 | 9/9/2020 4:31:58 AM | 54972 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 9/9/2020 5:04:08 PM | 54967 |
| Surr: BFB | 96.2 | 75.3-105 | | %Rec | 1 | 9/9/2020 5:04:08 PM | 54967 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 9/9/2020 5:04:08 PM | 54967 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 9/9/2020 5:04:08 PM | 54967 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 9/9/2020 5:04:08 PM | 54967 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 9/9/2020 5:04:08 PM | 54967 |
| Surr: 4-Bromofluorobenzene | 101 | 80-120 | | %Rec | 1 | 9/9/2020 5:04:08 PM | 54967 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** H2-2
**Project:** Jackson 5 Battery
**Collection Date:** 9/3/2020 8:07:00 AM
**Lab ID:** 2009308-002 **Matrix:** SOIL
**Received Date:** 9/4/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** | |
| Chloride | 200 | 60 | | mg/Kg | 20 | 9/11/2020 10:55:28 PM | 55110 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** | |
| Diesel Range Organics (DRO) | 23 | 9.8 | | mg/Kg | 1 | 9/9/2020 4:55:37 AM | 54972 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 9/9/2020 4:55:37 AM | 54972 |
| Surr: DNOP | 98.6 | 30.4-154 | | %Rec | 1 | 9/9/2020 4:55:37 AM | 54972 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 9/9/2020 5:27:43 PM | 54967 |
| Surr: BFB | 93.6 | 75.3-105 | | %Rec | 1 | 9/9/2020 5:27:43 PM | 54967 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 9/9/2020 5:27:43 PM | 54967 |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 9/9/2020 5:27:43 PM | 54967 |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 9/9/2020 5:27:43 PM | 54967 |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 9/9/2020 5:27:43 PM | 54967 |
| Surr: 4-Bromofluorobenzene | 99.0 | 80-120 | | %Rec | 1 | 9/9/2020 5:27:43 PM | 54967 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Project:** Jackson 5 Battery
**Lab ID:** 2009308-003 **Matrix:** SOIL

**Client Sample ID:** H6-2
**Collection Date:** 9/3/2020 8:04:00 AM
**Received Date:** 9/4/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** | |
| Chloride | 290 | 60 | | mg/Kg | 20 | 9/11/2020 11:07:53 PM | 55110 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** | |
| Diesel Range Organics (DRO) | 38 | 9.7 | | mg/Kg | 1 | 9/9/2020 5:42:57 AM | 54972 |
| Motor Oil Range Organics (MRO) | 72 | 49 | | mg/Kg | 1 | 9/9/2020 5:42:57 AM | 54972 |
| Surr: DNOP | 101 | 30.4-154 | | %Rec | 1 | 9/9/2020 5:42:57 AM | 54972 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 9/9/2020 5:51:18 PM | 54967 |
| Surr: BFB | 90.7 | 75.3-105 | | %Rec | 1 | 9/9/2020 5:51:18 PM | 54967 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 9/9/2020 5:51:18 PM | 54967 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 9/9/2020 5:51:18 PM | 54967 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 9/9/2020 5:51:18 PM | 54967 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 9/9/2020 5:51:18 PM | 54967 |
| Surr: 4-Bromofluorobenzene | 97.3 | 80-120 | | %Rec | 1 | 9/9/2020 5:51:18 PM | 54967 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2009308**

*14-Sep-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: **MB-54981** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **54981** | RunNo: **71691** |
| Prep Date: **9/5/2020** | Analysis Date: **9/8/2020** | SeqNo: **2507305** Units: **%Rec** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: DNOP | 11 | | 10.00 | | 110 | 30.4 | 154 | | | |

| Sample ID: **LCS-54981** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **54981** | RunNo: **71691** |
| Prep Date: **9/5/2020** | Analysis Date: **9/8/2020** | SeqNo: **2507306** Units: **%Rec** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: DNOP | 5.2 | | 5.000 | | 105 | 30.4 | 154 | | | |

| Sample ID: **MB-54972** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **54972** | RunNo: **71691** |
| Prep Date: **9/5/2020** | Analysis Date: **9/8/2020** | SeqNo: **2507329** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.4 | | 10.00 | | 94.5 | 30.4 | 154 | | | |

| Sample ID: **LCS-54972** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **54972** | RunNo: **71691** |
| Prep Date: **9/5/2020** | Analysis Date: **9/8/2020** | SeqNo: **2507330** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 46 | 10 | 50.00 | 0 | 92.5 | 70 | 130 | | | |
| Surr: DNOP | 4.6 | | 5.000 | | 92.1 | 30.4 | 154 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2009308**

*14-Sep-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: **mb-54967** | SampType: **MBLK** | TestCode: **EPA Method 8015D: Gasoline Range** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **PBS** | Batch ID: **54967** | RunNo: **71708** | | | | | | | |
| Prep Date: **9/4/2020** | Analysis Date: **9/9/2020** | SeqNo: **2508112** | Units: **mg/Kg** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 950 | | 1000 | | 94.7 | 75.3 | 105 | | | |

| Sample ID: **lcs-54967** | SampType: **LCS** | TestCode: **EPA Method 8015D: Gasoline Range** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **LCSS** | Batch ID: **54967** | RunNo: **71708** | | | | | | | |
| Prep Date: **9/4/2020** | Analysis Date: **9/9/2020** | SeqNo: **2508113** | Units: **mg/Kg** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21 | 5.0 | 25.00 | 0 | 82.1 | 72.5 | 106 | | | |
| Surr: BFB | 1000 | | 1000 | | 104 | 75.3 | 105 | | | |

| Sample ID: **mb-54978** | SampType: **MBLK** | TestCode: **EPA Method 8015D: Gasoline Range** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **PBS** | Batch ID: **54978** | RunNo: **71708** | | | | | | | |
| Prep Date: **9/5/2020** | Analysis Date: **9/10/2020** | SeqNo: **2508136** | Units: **%Rec** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 930 | | 1000 | | 93.0 | 75.3 | 105 | | | |

| Sample ID: **lcs-54978** | SampType: **LCS** | TestCode: **EPA Method 8015D: Gasoline Range** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **LCSS** | Batch ID: **54978** | RunNo: **71708** | | | | | | | |
| Prep Date: **9/5/2020** | Analysis Date: **9/9/2020** | SeqNo: **2508137** | Units: **%Rec** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 1000 | | 1000 | | 102 | 75.3 | 105 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2009308**

*14-Sep-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: **mb-54967** | SampType: **MBLK** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **54967** | RunNo: **71708** |
| Prep Date: **9/4/2020** | Analysis Date: **9/9/2020** | SeqNo: **2508158** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 98.8 | 80 | 120 | | | |

| Sample ID: **LCS-54967** | SampType: **LCS** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **54967** | RunNo: **71708** |
| Prep Date: **9/4/2020** | Analysis Date: **9/9/2020** | SeqNo: **2508159** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.87 | 0.025 | 1.000 | 0 | 87.1 | 80 | 120 | | | |
| Toluene | 0.88 | 0.050 | 1.000 | 0 | 87.5 | 80 | 120 | | | |
| Ethylbenzene | 0.89 | 0.050 | 1.000 | 0 | 88.8 | 80 | 120 | | | |
| Xylenes, Total | 2.7 | 0.10 | 3.000 | 0 | 88.9 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 102 | 80 | 120 | | | |

| Sample ID: **mb-54978** | SampType: **MBLK** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **54978** | RunNo: **71708** |
| Prep Date: **9/5/2020** | Analysis Date: **9/10/2020** | SeqNo: **2508182** Units: **%Rec** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 98.9 | 80 | 120 | | | |

| Sample ID: **LCS-54978** | SampType: **LCS** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **54978** | RunNo: **71708** |
| Prep Date: **9/5/2020** | Analysis Date: **9/9/2020** | SeqNo: **2508183** Units: **%Rec** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 102 | 80 | 120 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: clients.hallenvironmental.com*

# Sample Log-In Check List

Client Name: EOG Resources Work Order Number: 2009308 RcptNo: 1

Received By: **Cheyenne Cason** 9/4/2020 8:00:00 AM

Completed By: **Juan Rojas** 9/4/2020 8:58:07 AM

Reviewed By: 9/4/20

## Chain of Custody

| | | | |
|---|---|---|---|
| 1. Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. How was the sample delivered? | Courier | | |

## Log In

| | | | |
|---|---|---|---|
| 3. Was an attempt made to cool the samples? | Yes ☑ | No ☐ | NA ☐ |
| 4. Were all samples received at a temperature of >0° C to 6.0°C | Yes ☑ | No ☐ | NA ☐ |
| 5. Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 6. Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 7. Are samples (except VOA and ONG) properly preserved? | Yes ☑ | No ☐ | |
| 8. Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 9. Received at least 1 vial with headspace <1/4" for AQ VOA? | Yes ☐ | No ☐ | NA ☑ |
| 10. Were any sample containers received broken? | Yes ☐ | No ☑ | |
| 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | Yes ☑ | No ☐ | |
| 12. Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | |
| 13. Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 14. Were all holding times able to be met? (If no, notify customer for authorization.) | Yes ☑ | No ☐ | |

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: EM 9/4/20

## Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|---|---|---|---|---|---|---|
| 1 | 3.2 | Good | | | | |
| 2 | 3.8 | Good | | | | |

# Chain-of-Custody Record

Client: EOG Resources

Mailing Address: On File

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 5 Day Turn
☑ Standard ☐ Rush

Project Name: Jackson 5 Battery

Project #:

Project Manager: Chase Settle

Sampler: Chase Settle

On Ice: ☑ Yes ☐ No

# of Coolers: ~~1~~ 2

Cooler Temp(including CF): See Remark (°C)

**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

**Analysis Request**

| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. 2009308 | BTEX / MTBE / TMB's (8021) | TPH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 PCB's | EDB (Method 504.1) | PAHs by 8310 or 8270SIMS | RCRA 8 Metals | (Cl, F, Br, $NO_3$, $NO_2$, $PO_4$, $SO_4$) | 8260 (VOA) | 8270 (Semi-VOA) | Total Coliform (Present/Absent) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9-3-20 | 8:08 | Soil | H1-2 | 4oz Glass/1 | ICE | -001 | X | X | | | | | X | | | |
| 1 | 8:07 | 1 | H2-2 | 1 | 1 | -002 | 1 | 1 | | | | | 1 | | | |
| 1 | 8:04 | 1 | H6-2 | 1 | 1 | -003 | 1 | 1 | | | | | 1 | | | |

| Date: | Time: | Relinquished by: | Received by: | Via: | Date | Time |
|---|---|---|---|---|---|---|
| 9-3-20 | 8:32 | | | | 9/3/20 | 0832 |
| Date: | Time: | Relinquished by: | Received by: | Via: | Date | Time |
| 9-3-20 | 1900 | | | | 9/4/20 | 0800 |

Remarks:
3.4 - 0.2 = 3.2
4.0 - 0.2 = ~~3.8~~ 3.8

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: clients.hallenvironmental.com*

September 15, 2020

Chase Settle
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Jackson 5 Battery OrderNo.: 2009307

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 6 sample(s) on 9/4/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Project:** Jackson 5 Battery
**Lab ID:** 2009307-001 **Matrix:** SOIL

**Client Sample ID:** V1-12'
**Collection Date:** 9/3/2020 7:30:00 AM
**Received Date:** 9/4/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** | |
| Chloride | 69 | 60 | | mg/Kg | 20 | 9/12/2020 1:24:21 AM | 55110 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** | |
| Diesel Range Organics (DRO) | ND | 9.4 | | mg/Kg | 1 | 9/9/2020 2:09:29 AM | 54972 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 9/9/2020 2:09:29 AM | 54972 |
| Surr: DNOP | 103 | 30.4-154 | | %Rec | 1 | 9/9/2020 2:09:29 AM | 54972 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 9/9/2020 1:55:51 PM | 54967 |
| Surr: BFB | 95.2 | 75.3-105 | | %Rec | 1 | 9/9/2020 1:55:51 PM | 54967 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 9/9/2020 1:55:51 PM | 54967 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 9/9/2020 1:55:51 PM | 54967 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 9/9/2020 1:55:51 PM | 54967 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 9/9/2020 1:55:51 PM | 54967 |
| Surr: 4-Bromofluorobenzene | 99.4 | 80-120 | | %Rec | 1 | 9/9/2020 1:55:51 PM | 54967 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Project:** Jackson 5 Battery
**Lab ID:** 2009307-002 **Matrix:** SOIL

**Client Sample ID:** V2-5'
**Collection Date:** 9/3/2020 7:33:00 AM
**Received Date:** 9/4/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** | |
| Chloride | ND | 60 | | mg/Kg | 20 | 9/12/2020 1:36:46 AM | 55110 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** | |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 9/9/2020 2:33:17 AM | 54972 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 9/9/2020 2:33:17 AM | 54972 |
| Surr: DNOP | 104 | 30.4-154 | | %Rec | 1 | 9/9/2020 2:33:17 AM | 54972 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 9/9/2020 2:19:13 PM | 54967 |
| Surr: BFB | 93.6 | 75.3-105 | | %Rec | 1 | 9/9/2020 2:19:13 PM | 54967 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 9/9/2020 2:19:13 PM | 54967 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 9/9/2020 2:19:13 PM | 54967 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 9/9/2020 2:19:13 PM | 54967 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 9/9/2020 2:19:13 PM | 54967 |
| Surr: 4-Bromofluorobenzene | 97.1 | 80-120 | | %Rec | 1 | 9/9/2020 2:19:13 PM | 54967 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Project:** Jackson 5 Battery
**Lab ID:** 2009307-003 **Matrix:** SOIL

**Client Sample ID:** V5-5'
**Collection Date:** 9/3/2020 7:35:00 AM
**Received Date:** 9/4/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** | |
| Chloride | 120 | 60 | | mg/Kg | 20 | 9/12/2020 1:49:10 AM | 55110 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** | |
| Diesel Range Organics (DRO) | 10 | 9.7 | | mg/Kg | 1 | 9/9/2020 2:57:02 AM | 54972 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 9/9/2020 2:57:02 AM | 54972 |
| Surr: DNOP | 103 | 30.4-154 | | %Rec | 1 | 9/9/2020 2:57:02 AM | 54972 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 9/9/2020 3:30:03 PM | 54967 |
| Surr: BFB | 93.9 | 75.3-105 | | %Rec | 1 | 9/9/2020 3:30:03 PM | 54967 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 9/9/2020 3:30:03 PM | 54967 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 9/9/2020 3:30:03 PM | 54967 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 9/9/2020 3:30:03 PM | 54967 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 9/9/2020 3:30:03 PM | 54967 |
| Surr: 4-Bromofluorobenzene | 99.5 | 80-120 | | %Rec | 1 | 9/9/2020 3:30:03 PM | 54967 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Project:** Jackson 5 Battery
**Lab ID:** 2009307-004 **Matrix:** SOIL

**Client Sample ID:** V6-5'
**Collection Date:** 9/3/2020 7:39:00 AM
**Received Date:** 9/4/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JMT** | |
| Chloride | 120 | 60 | | mg/Kg | 20 | 9/12/2020 10:45:40 AM | 55114 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** | |
| Diesel Range Organics (DRO) | 9.8 | 9.4 | | mg/Kg | 1 | 9/9/2020 3:20:46 AM | 54972 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 9/9/2020 3:20:46 AM | 54972 |
| Surr: DNOP | 99.5 | 30.4-154 | | %Rec | 1 | 9/9/2020 3:20:46 AM | 54972 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 9/9/2020 3:53:40 PM | 54967 |
| Surr: BFB | 94.4 | 75.3-105 | | %Rec | 1 | 9/9/2020 3:53:40 PM | 54967 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 9/9/2020 3:53:40 PM | 54967 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 9/9/2020 3:53:40 PM | 54967 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 9/9/2020 3:53:40 PM | 54967 |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 9/9/2020 3:53:40 PM | 54967 |
| Surr: 4-Bromofluorobenzene | 98.9 | 80-120 | | %Rec | 1 | 9/9/2020 3:53:40 PM | 54967 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** V3-14'
**Project:** Jackson 5 Battery
**Collection Date:** 9/3/2020 7:43:00 AM
**Lab ID:** 2009307-005 **Matrix:** SOIL **Received Date:** 9/4/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JMT** | |
| Chloride | ND | 61 | | mg/Kg | 20 | 9/12/2020 10:58:04 AM | 55114 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** | |
| Diesel Range Organics (DRO) | ND | 9.8 | | mg/Kg | 1 | 9/9/2020 3:44:33 AM | 54972 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 9/9/2020 3:44:33 AM | 54972 |
| Surr: DNOP | 103 | 30.4-154 | | %Rec | 1 | 9/9/2020 3:44:33 AM | 54972 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 9/9/2020 4:17:11 PM | 54967 |
| Surr: BFB | 95.1 | 75.3-105 | | %Rec | 1 | 9/9/2020 4:17:11 PM | 54967 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 9/9/2020 4:17:11 PM | 54967 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 9/9/2020 4:17:11 PM | 54967 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 9/9/2020 4:17:11 PM | 54967 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 9/9/2020 4:17:11 PM | 54967 |
| Surr: 4-Bromofluorobenzene | 100 | 80-120 | | %Rec | 1 | 9/9/2020 4:17:11 PM | 54967 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** V5-12'
**Project:** Jackson 5 Battery
**Collection Date:** 9/3/2020 7:47:00 AM
**Lab ID:** 2009307-006 **Matrix:** SOIL
**Received Date:** 9/4/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JMT** | |
| Chloride | ND | 60 | | mg/Kg | 20 | 9/12/2020 11:10:29 AM | 55114 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** | |
| Diesel Range Organics (DRO) | ND | 9.5 | | mg/Kg | 1 | 9/9/2020 4:08:16 AM | 54972 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 9/9/2020 4:08:16 AM | 54972 |
| Surr: DNOP | 91.6 | 30.4-154 | | %Rec | 1 | 9/9/2020 4:08:16 AM | 54972 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 9/9/2020 4:40:37 PM | 54967 |
| Surr: BFB | 97.0 | 75.3-105 | | %Rec | 1 | 9/9/2020 4:40:37 PM | 54967 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 9/9/2020 4:40:37 PM | 54967 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 9/9/2020 4:40:37 PM | 54967 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 9/9/2020 4:40:37 PM | 54967 |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 9/9/2020 4:40:37 PM | 54967 |
| Surr: 4-Bromofluorobenzene | 101 | 80-120 | | %Rec | 1 | 9/9/2020 4:40:37 PM | 54967 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2009307**

*15-Sep-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: **MB-55114** | SampType: **mblk** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **55114** | RunNo: **71818** |
| Prep Date: **9/11/2020** | Analysis Date: **9/12/2020** | SeqNo: **2513250** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: **LCS-55114** | SampType: **lcs** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **55114** | RunNo: **71818** |
| Prep Date: **9/11/2020** | Analysis Date: **9/12/2020** | SeqNo: **2513251** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 14 | 1.5 | 15.00 | 0 | 93.8 | 90 | 110 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2009307**

*15-Sep-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: **MB-54981** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **54981** | RunNo: **71691** |
| Prep Date: **9/5/2020** | Analysis Date: **9/8/2020** | SeqNo: **2507305** Units: **%Rec** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: DNOP | 11 | | 10.00 | | 110 | 30.4 | 154 | | | |

| Sample ID: **LCS-54981** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **54981** | RunNo: **71691** |
| Prep Date: **9/5/2020** | Analysis Date: **9/8/2020** | SeqNo: **2507306** Units: **%Rec** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: DNOP | 5.2 | | 5.000 | | 105 | 30.4 | 154 | | | |

| Sample ID: **MB-54972** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **54972** | RunNo: **71691** |
| Prep Date: **9/5/2020** | Analysis Date: **9/8/2020** | SeqNo: **2507329** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.4 | | 10.00 | | 94.5 | 30.4 | 154 | | | |

| Sample ID: **LCS-54972** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **54972** | RunNo: **71691** |
| Prep Date: **9/5/2020** | Analysis Date: **9/8/2020** | SeqNo: **2507330** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 46 | 10 | 50.00 | 0 | 92.5 | 70 | 130 | | | |
| Surr: DNOP | 4.6 | | 5.000 | | 92.1 | 30.4 | 154 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2009307

*15-Sep-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: mb-54967 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: PBS | Batch ID: 54967 | RunNo: 71708 | | | | | | | |
| Prep Date: 9/4/2020 | Analysis Date: 9/9/2020 | SeqNo: 2508112 | Units: mg/Kg | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 950 | | 1000 | | 94.7 | 75.3 | 105 | | | |

| Sample ID: lcs-54967 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: LCSS | Batch ID: 54967 | RunNo: 71708 | | | | | | | |
| Prep Date: 9/4/2020 | Analysis Date: 9/9/2020 | SeqNo: 2508113 | Units: mg/Kg | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21 | 5.0 | 25.00 | 0 | 82.1 | 72.5 | 106 | | | |
| Surr: BFB | 1000 | | 1000 | | 104 | 75.3 | 105 | | | |

| Sample ID: mb-54978 | SampType: MBLK | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: PBS | Batch ID: 54978 | RunNo: 71708 | | | | | | | |
| Prep Date: 9/5/2020 | Analysis Date: 9/10/2020 | SeqNo: 2508136 | Units: %Rec | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 930 | | 1000 | | 93.0 | 75.3 | 105 | | | |

| Sample ID: lcs-54978 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: LCSS | Batch ID: 54978 | RunNo: 71708 | | | | | | | |
| Prep Date: 9/5/2020 | Analysis Date: 9/9/2020 | SeqNo: 2508137 | Units: %Rec | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB | 1000 | | 1000 | | 102 | 75.3 | 105 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2009307**

*15-Sep-20*

**Client:** EOG

**Project:** Jackson 5 Battery

Sample ID: **mb-54967** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **54967** RunNo: **71708**

Prep Date: **9/4/2020** Analysis Date: **9/9/2020** SeqNo: **2508158** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 98.8 | 80 | 120 | | | |

Sample ID: **LCS-54967** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **54967** RunNo: **71708**

Prep Date: **9/4/2020** Analysis Date: **9/9/2020** SeqNo: **2508159** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.87 | 0.025 | 1.000 | 0 | 87.1 | 80 | 120 | | | |
| Toluene | 0.88 | 0.050 | 1.000 | 0 | 87.5 | 80 | 120 | | | |
| Ethylbenzene | 0.89 | 0.050 | 1.000 | 0 | 88.8 | 80 | 120 | | | |
| Xylenes, Total | 2.7 | 0.10 | 3.000 | 0 | 88.9 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 102 | 80 | 120 | | | |

Sample ID: **mb-54978** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **54978** RunNo: **71708**

Prep Date: **9/5/2020** Analysis Date: **9/10/2020** SeqNo: **2508182** Units: **%Rec**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 98.9 | 80 | 120 | | | |

Sample ID: **LCS-54978** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **54978** RunNo: **71708**

Prep Date: **9/5/2020** Analysis Date: **9/9/2020** SeqNo: **2508183** Units: **%Rec**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 102 | 80 | 120 | | | |

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quanitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: clients.hallenvironmental.com*

# Sample Log-In Check List

Client Name: EOG Resources Work Order Number: 2009307 RcptNo: 1

Received By: Cheyenne Cason 9/4/2020 8:00:00 AM

Completed By: Juan Rojas 9/4/2020 8:52:44 AM

Reviewed By: 9/4/20

## Chain of Custody

| | | | |
|---|---|---|---|
| 1. Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. How was the sample delivered? | Courier | | |

## Log In

| | | | |
|---|---|---|---|
| 3. Was an attempt made to cool the samples? | Yes ☑ | No ☐ | NA ☐ |
| 4. Were all samples received at a temperature of >0° C to 6.0°C | Yes ☑ | No ☐ | NA ☐ |
| 5. Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 6. Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 7. Are samples (except VOA and ONG) properly preserved? | Yes ☑ | No ☐ | |
| 8. Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 9. Received at least 1 vial with headspace <1/4" for AQ VOA? | Yes ☐ | No ☐ | NA ☑ |
| 10. Were any sample containers received broken? | Yes ☐ | No ☑ | |
| 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | Yes ☑ | No ☐ | |
| 12. Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | |
| 13. Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 14. Were all holding times able to be met? (If no, notify customer for authorization.) | Yes ☑ | No ☐ | |

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: 9/4/20

## Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|---|---|---|---|---|---|---|
| 1 | 3.2 | Good | | | | |
| 2 | 3.8 | Good | | | | |

# Chain-of-Custody Record

Client: EOG Resources

Mailing Address: On File

Phone #:

email or Fax#:

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 5 Day Turn
☑ Standard ☐ Rush

Project Name: Jackson 5 Battery

Project #:

Project Manager: Chase Settle

Sampler: Chase Settle

On Ice: ☒ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): See Remarks (°C)

**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. 2009307 | BTEX / MTBE / TMB's (8021) | TPH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 PCB's | EDB (Method 504.1) | PAHs by 8310 or 8270SIMS | RCRA 8 Metals | Cl, F, Br, $NO_3$, $NO_2$, $PO_4$, $SO_4$ | 8260 (VOA) | 8270 (Semi-VOA) | Total Coliform (Present/Absent) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9/3/20 | 7:30 | Soil | V1-12' | 4oz Glass/1 | ICE | -001 | X | X | | | | | X | | | |
| | 7:33 | | V2-5' | | | -002 | | | | | | | | | | |
| | 7:35 | | V5-5' | | | -003 | | | | | | | | | | |
| | 7:39 | | V6-5' | | | -004 | | | | | | | | | | |
| | 7:43 | | V3-14' | | | -005 | | | | | | | | | | |
| | 7:47 | | V5-12' | | | -006 | | | | | | | | | | |

| Date: | Time: | Relinquished by: | Received by: | Via: | Date | Time |
|---|---|---|---|---|---|---|
| 9-3-20 | 8:32 | | | | 9/3/20 | 0832 |
| 9-3-20 | 1900 | | | | 9/4/20 | 080 |

Remarks:
3.4 - 0.2 = 3.2
4.0 - 0.2 = 3.8

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: clients.hallenvironmental.com*

September 25, 2020

Chase Settle
EOG
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4195
FAX

RE: Jackson 5 Battery OrderNo.: 2009B09

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/18/2020 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** H6-3
**Project:** Jackson 5 Battery
**Collection Date:** 9/17/2020 8:45:00 AM
**Lab ID:** 2009B09-001 **Matrix:** SOIL
**Received Date:** 9/18/2020 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **BRM** |
| Diesel Range Organics (DRO) | ND | 9.4 | | mg/Kg | 1 | 9/22/2020 6:40:45 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 9/22/2020 6:40:45 PM |
| Surr: DNOP | 149 | 30.4-154 | | %Rec | 1 | 9/22/2020 6:40:45 PM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 9/23/2020 4:48:13 AM |
| Surr: BFB | 87.1 | 75.3-105 | | %Rec | 1 | 9/23/2020 4:48:13 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 9/23/2020 4:48:13 AM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 9/23/2020 4:48:13 AM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 9/23/2020 4:48:13 AM |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 9/23/2020 4:48:13 AM |
| Surr: 4-Bromofluorobenzene | 99.6 | 80-120 | | %Rec | 1 | 9/23/2020 4:48:13 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **MRA** |
| Chloride | ND | 59 | | mg/Kg | 20 | 9/25/2020 3:24:20 AM |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2009B09**

*25-Sep-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: **MB-55435** | SampType: **mblk** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **55435** | RunNo: **72148** |
| Prep Date: **9/24/2020** | Analysis Date: **9/24/2020** | SeqNo: **2529091** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: **LCS-55435** | SampType: **lcs** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **55435** | RunNo: **72148** |
| Prep Date: **9/24/2020** | Analysis Date: **9/24/2020** | SeqNo: **2529092** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 14 | 1.5 | 15.00 | 0 | 92.4 | 90 | 110 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2009B09**

*25-Sep-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: **LCS-55318** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **LCSS** | Batch ID: **55318** | RunNo: **72063** | | | | | | | |
| Prep Date: **9/21/2020** | Analysis Date: **9/22/2020** | SeqNo: **2524682** | Units: **mg/Kg** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 60 | 10 | 50.00 | 0 | 119 | 70 | 130 | | | |
| Surr: DNOP | 3.7 | | 5.000 | | 74.6 | 30.4 | 154 | | | |

| Sample ID: **LCS-55322** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **LCSS** | Batch ID: **55322** | RunNo: **72063** | | | | | | | |
| Prep Date: **9/21/2020** | Analysis Date: **9/22/2020** | SeqNo: **2524684** | Units: **%Rec** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.0 | | 5.000 | | 80.5 | 30.4 | 154 | | | |

| Sample ID: **LCS-55325** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **LCSS** | Batch ID: **55325** | RunNo: **72063** | | | | | | | |
| Prep Date: **9/21/2020** | Analysis Date: **9/23/2020** | SeqNo: **2524685** | Units: **%Rec** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.6 | | 5.000 | | 92.7 | 30.4 | 154 | | | |

| Sample ID: **MB-55318** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **PBS** | Batch ID: **55318** | RunNo: **72063** | | | | | | | |
| Prep Date: **9/21/2020** | Analysis Date: **9/22/2020** | SeqNo: **2524687** | Units: **mg/Kg** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 7.2 | | 10.00 | | 72.3 | 30.4 | 154 | | | |

| Sample ID: **MB-55322** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **PBS** | Batch ID: **55322** | RunNo: **72063** | | | | | | | |
| Prep Date: **9/21/2020** | Analysis Date: **9/22/2020** | SeqNo: **2524688** | Units: **%Rec** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 8.6 | | 10.00 | | 86.2 | 30.4 | 154 | | | |

| Sample ID: **MB-55325** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **PBS** | Batch ID: **55325** | RunNo: **72063** | | | | | | | |
| Prep Date: **9/21/2020** | Analysis Date: **9/22/2020** | SeqNo: **2524689** | Units: **%Rec** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 9.1 | | 10.00 | | 90.9 | 30.4 | 154 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2009B09**

*25-Sep-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: **mb-55300** | SampType: **MBLK** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **55300** | RunNo: **72044** |
| Prep Date: **9/21/2020** | Analysis Date: **9/23/2020** | SeqNo: **2523843** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 850 | | 1000 | | 84.9 | 75.3 | 105 | | | |

| Sample ID: **lcs-55300** | SampType: **LCS** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **55300** | RunNo: **72044** |
| Prep Date: **9/21/2020** | Analysis Date: **9/22/2020** | SeqNo: **2523844** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 23 | 5.0 | 25.00 | 0 | 90.4 | 72.5 | 106 | | | |
| Surr: BFB | 960 | | 1000 | | 96.0 | 75.3 | 105 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2009B09**

*25-Sep-20*

**Client:** EOG

**Project:** Jackson 5 Battery

| Sample ID: **mb-55300** | SampType: **MBLK** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **55300** | RunNo: **72044** |
| Prep Date: **9/21/2020** | Analysis Date: **9/23/2020** | SeqNo: **2523891** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 102 | 80 | 120 | | | |

| Sample ID: **LCS-55300** | SampType: **LCS** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **55300** | RunNo: **72044** |
| Prep Date: **9/21/2020** | Analysis Date: **9/22/2020** | SeqNo: **2523892** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.89 | 0.025 | 1.000 | 0 | 89.2 | 80 | 120 | | | |
| Toluene | 0.92 | 0.050 | 1.000 | 0 | 91.6 | 80 | 120 | | | |
| Ethylbenzene | 0.93 | 0.050 | 1.000 | 0 | 92.8 | 80 | 120 | | | |
| Xylenes, Total | 2.8 | 0.10 | 3.000 | 0 | 92.9 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 101 | 80 | 120 | | | |

**Qualifiers:**

| | |
|---|---|
| * | Value exceeds Maximum Contaminant Level. |
| D | Sample Diluted Due to Matrix |
| H | Holding times for preparation or analysis exceeded |
| ND | Not Detected at the Reporting Limit |
| PQL | Practical Quanitative Limit |
| S | % Recovery outside of range due to dilution or matrix |
| B | Analyte detected in the associated Method Blank |
| E | Value above quantitation range |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

HALL ENVIRONMENTAL ANALYSIS LABORATORY

*Hall Environmental Analysis Laboratory*
*4901 Hawkins NE*
*Albuquerque, NM 87109*
*TEL: 505-345-3975 FAX: 505-345-4107*
*Website: clients.hallenvironmental.com*

# Sample Log-In Check List

Client Name: EOG Resources Work Order Number: 2009B09 RcptNo: 1

Received By: Cheyenne Cason 9/18/2020 8:00:00 AM

Completed By: Juan Rojas 9/18/2020 10:26:34 AM

Reviewed By: EM 9/18/20

## Chain of Custody

| | | | |
|---|---|---|---|
| 1. Is Chain of Custody complete? | Yes ☑ | No ☐ | Not Present ☐ |
| 2. How was the sample delivered? | Courier | | |

## Log In

| | | | |
|---|---|---|---|
| 3. Was an attempt made to cool the samples? | Yes ☑ | No ☐ | NA ☐ |
| 4. Were all samples received at a temperature of >0° C to 6.0°C | Yes ☑ | No ☐ | NA ☐ |
| 5. Sample(s) in proper container(s)? | Yes ☑ | No ☐ | |
| 6. Sufficient sample volume for indicated test(s)? | Yes ☑ | No ☐ | |
| 7. Are samples (except VOA and ONG) properly preserved? | Yes ☑ | No ☐ | |
| 8. Was preservative added to bottles? | Yes ☐ | No ☑ | NA ☐ |
| 9. Received at least 1 vial with headspace <1/4" for AQ VOA? | Yes ☐ | No ☐ | NA ☑ |
| 10. Were any sample containers received broken? | Yes ☐ | No ☑ | |
| 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | Yes ☑ | No ☐ | |
| 12. Are matrices correctly identified on Chain of Custody? | Yes ☑ | No ☐ | |
| 13. Is it clear what analyses were requested? | Yes ☑ | No ☐ | |
| 14. Were all holding times able to be met? (If no, notify customer for authorization.) | Yes ☑ | No ☐ | |

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: CM 9/18/20

## Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|---|---|---|---|---|---|---|
| 1 | 2.9 | Good | | | | |

# Chain-of-Custody Record

Client: EOG Resources

Mailing Address: On File

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 5 day Turn

☒ Standard ☐ Rush

Project Name: Jackson 5 Battery

Project #:

Project Manager: Chase Settle

Sampler: Chase Settle

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 2.8 +0.1 = 2.9 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. 7009309 | Analysis Request: BTEX / MTBE / TMB's (8021) | TPH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 PCB's | EDB (Method 504.1) | PAHs by 8310 or 8270SIMS | RCRA 8 Metals | Cl, F, Br, $NO_3$, $NO_2$, $PO_4$, $SO_4$ | 8260 (VOA) | 8270 (Semi-VOA) | Total Coliform (Present/Absent) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9-17-20 | 8:45 | Soil | H6-3 | 4oz Glass/1 | ICE | -001 | X | X | | | | | X | | | |

| Date: | Time: | Relinquished by: | Received by: | Via: | Date Time | Remarks: |
|---|---|---|---|---|---|---|
| 9-17-20 | 9:30 | | | | 9/17/20 0930 | |
| 9/17/20 | 1900 | | | | 9/18/20 0800 | |

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

# Appendix B
## USGS Groundwater Data

USGS
science for a changing world

National Water Information System: Map View

Sites | Map Layers

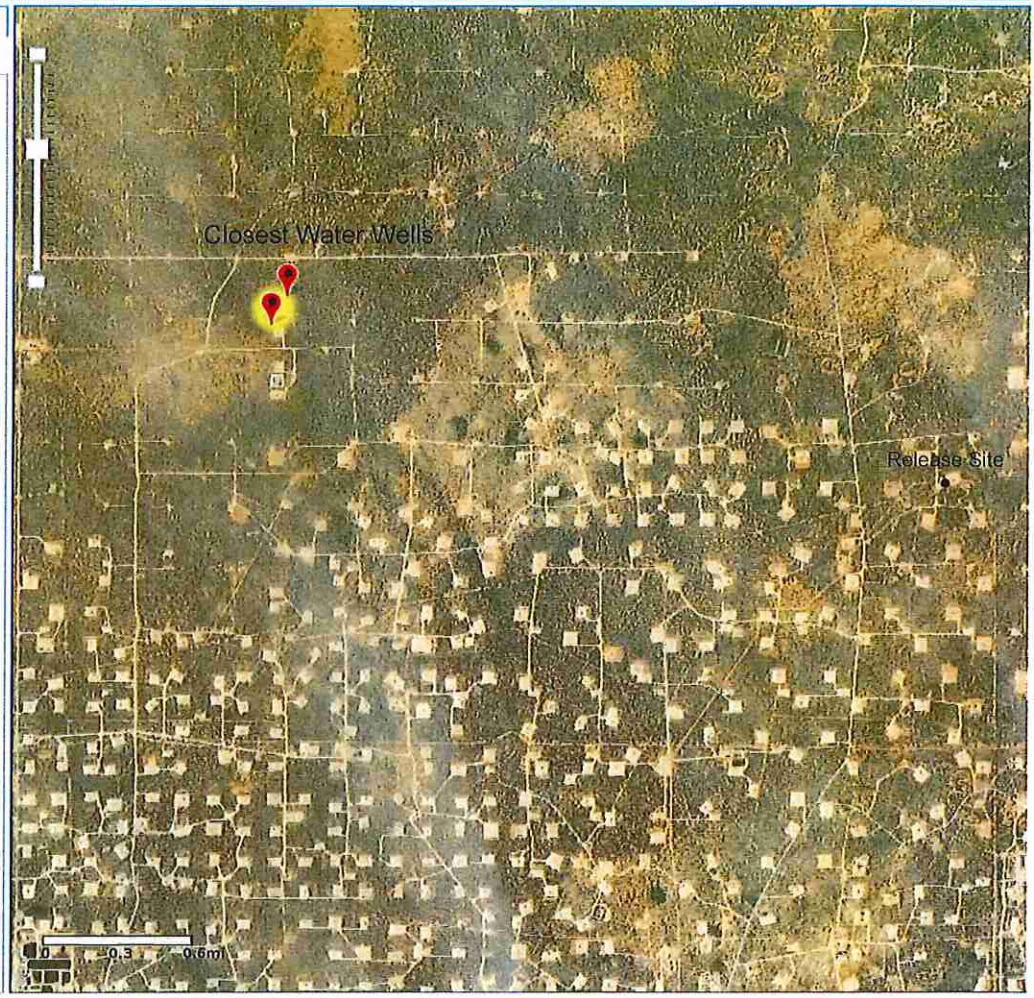
Search Results

Export Sites

| Site Number | Site Name |
|---|---|
| 325210103580101 | 16S.30E.33.44233 |
| 325216103575701 | 16S.30E.33.42443 |

Search Parameters

Explanation of Symbols



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

- Please see news on new formats
- Full News

Groundwater levels for the Nation

## Search Results -- 1 sites found

**Agency code =** usgs
**site_no list =**
- 325216103575701

**Minimum number of levels =** 1
Save file of selected sites to local disk for future upload

## USGS 325216103575701 16S.30E.33.42443

Eddy County, New Mexico
Latitude 32°52'16", Longitude 103°57'57" NAD27
Land-surface elevation 3,729 feet above NAVD88
The depth of the well is 385 feet below land surface.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

**Output formats**

| Table of data |
|---|
| Tab-separated data |
| Graph of data |
| Reselect period |

| Date | Time | ? Water-level date-time accuracy | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Water-level accuracy | ? Status | ? Method of measurement | ? Measuring agency | ? Source of measurement | ? Water-level approval status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1986-04-25 | | D | 362.44 | | | 2 | | U | | U | A |

**Explanation**

| Section | Code | Description |
|---|---|---|
| Water-level date-time accuracy | D | Date is accurate to the Day |
| Water-level accuracy | 2 | Water level accuracy to nearest hundredth of a foot |
| Status | | The reported water-level measurement represents a static level |
| Method of measurement | U | Unknown method. |
| Measuring agency | | Not determined |
| Source of measurement | U | Source is unknown. |
| Water-level approval status | A | Approved for publication -- Processing and review completed. |

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
**Title: Groundwater for USA: Water Levels**
**URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?**

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2018-12-19 11:58:31 EST
0.5 0.43 nadww01

USGS
science for a changing world



National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews Bulletins

- Please see news on new formats
- Full News

Groundwater levels for the Nation

## Search Results -- 1 sites found

**Agency code** = usgs
**site_no list** =
- 325210103580101

**Minimum number of levels** = 1
Save file of selected sites to local disk for future upload

## USGS 325210103580101 16S.30E.33.44233

Eddy County, New Mexico
Latitude 32°52'10", Longitude 103°58'01" NAD27
Land-surface elevation 3,725 feet above NAVD88
The depth of the well is 433 feet below land surface.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

**Output formats**

| |
|---|
| Table of data |
| Tab-separated data |
| Graph of data |
| Reselect period |

| Date | Time | ? Water-level date-time accuracy | Water level, feet below land surface | Water level, feet above specific vertical datum | Referenced vertical datum | ? Water-level accuracy | ? Status | ? Method of measurement | ? Measuring agency | ? Source of measurement | ? Water-level approval status |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1986-04-25 | | D | 361.26 | | | 2 | | U | | U | A |

**Explanation**

| Section | Code | Description |
|---|---|---|
| Water-level date-time accuracy | D | Date is accurate to the Day |
| Water-level accuracy | 2 | Water level accuracy to nearest hundredth of a foot |
| Status | | The reported water-level measurement represents a static level |
| Method of measurement | U | Unknown method. |
| Measuring agency | | Not determined |
| Source of measurement | U | Source is unknown. |
| Water-level approval status | A | Approved for publication -- Processing and review completed. |

# Appendix C
## Form C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

| | |
|---|---|
| Incident ID | NRM2023059703 |
| District RP | |
| Facility ID | |
| Application ID | |

# Release Notification

## Responsible Party

| | |
|---|---|
| EOG Resources, Inc. | 7377 |
| Chase Settle | 575-748-1471 |
| Chase_Settle@eogresources.com | Incident # *(assigned by OCD)* |
| 104 S. 4th Street, Artesia, NM 88210 | |

## Location of Release Source

Latitude 32.85942 Longitude -103.92108
*(NAD 83 in decimal degrees to 5 decimal places)*

| | |
|---|---|
| Site Name Jackson B 5 Battery | Site Type Battery |
| Date Release Discovered 08/10/2020 | API# *(if applicable)* |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| P | 1 | 17S | 30E | Eddy |

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

## Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

| | | |
|---|---|---|
| ☒ Crude Oil | Volume Released (bbls) Unknown | Volume Recovered (bbls) 0 |
| ☐ Produced Water | Volume Released (bbls) | Volume Recovered (bbls) |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ☐ Yes ☐ No |
| ☐ Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| ☐ Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release
During facility maintenance, historical impaction was discovered under the oil tanks that were not on the lined portion of the battery.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

| | |
|---|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br>☐ Yes ☒ No | If YES, for what reason(s) does the responsible party consider this a major release? |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? | |

## Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Chase Settle Title: Safety and Environmental Rep II

Signature: Chase Settle Date: 08/17/2020

Email: Chase_Settle@eogresources.com Telephone: 575-748-1471

**OCD Only**

Received by: _____ Date: _____

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | NRM2023059703 |
| District RP | |
| Facility ID | |
| Application ID | |

# Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

| | |
|---|---|
| What is the shallowest depth to groundwater beneath the area affected by the release? | 361 (ft bgs) |
| Did this release impact groundwater or surface water? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐ Yes ☒ No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ☒ No |
| Are the lateral extents of the release within 300 feet of a wetland? | ☐ Yes ☒ No |
| Are the lateral extents of the release overlying a subsurface mine? | ☐ Yes ☒ No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | ☐ Yes ☒ No |
| Are the lateral extents of the release within a 100-year floodplain? | ☐ Yes ☒ No |
| Did the release impact areas **not** on an exploration, development, production, or storage site? | ☐ Yes ☒ No |

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

**Characterization Report Checklist:** ***Each of the following items must be included in the report.***

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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State of New Mexico
Oil Conservation Division

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|---|---|
| Incident ID | NRM2023059703 |
| District RP | |
| Facility ID | |
| Application ID | |

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Chase Settle  Title: Rep Safety & Environmental II

Signature: Chase Settle  Date: 11/12/2020

email: Chase_Settle@eogresources.com  Telephone: 575-748-1471

**OCD Only**

Received by: _____  Date: _____

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State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

# Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Chase Settle  Title: Rep Safety & Environmental II

Signature: Chase Settle  Date: 11/12/2020

email: Chase_Settle@eogresources.com  Telephone: 575-748-1471

**OCD Only**

Received by: Cristina Eads  Date: 11/20/2020

☐ Approved  ☑ Approved with Attached Conditions of Approval  ☐ Denied  ☐ Deferral Approved

Signature: Cristina Eads  Date: 01/21/2021

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State of New Mexico
Oil Conservation Division

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|---|---|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

# Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** ***Each of the following items must be included in the closure report.***

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

**OCD Only**

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

**District I**
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
**District II**
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
**District III**
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
**District IV**
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

# State of New Mexico
# Energy, Minerals and Natural Resources
# Oil Conservation Division
# 1220 S. St Francis Dr.
# Santa Fe, NM 87505

CONDITIONS

Action 11274

## CONDITIONS OF APPROVAL

| Operator: | OGRID: | Action Number: | Action Type: |
|---|---|---|---|
| EOG RESOURCES INC P.O. Box 2267 Midland, TX79702 | 7377 | 11274 | C-141 |

| OCD Reviewer | Condition |
|---|---|
| ceads | Each sample should be representative of no more than 25 cubic yards. |
| ceads | Please provide sample updates to the OCD if additional in situ remediation treatment and sampling is necessary. |
| ceads | Evidence of the depth to groundwater determination is insufficient. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, the data should be no more than 25 years old, and well construction information should be provided. The responsible party may choose to remediate the affected area to the most stringent levels listed in Table 1 in lieu of drilling to determine the depth to groundwater. |