September 6, 2022 Vertex Project #: 22E-00716-011

**Spill Closure Report:** Julie #2 Battery (Section 8, Township 19 South, Range 25 East)
API: 30-015-25905
County: Eddy
Incident Report: NAB1714648527 (2RP-4225), NAB1736130254 (2RP-4531)

**Prepared For:** **EOG Resources, Inc.**
104 South 4th Street
Artesia, New Mexico 88210

**New Mexico Oil Conservation Division - District 2 - Eddy**
811 South 1st Street
Artesia, New Mexico 88210

EOG Resources, Inc. (EOG) retained Vertex Resource Services Inc. (Vertex) to conduct Remediation for historical releases that occurred at the Julie #2 Battery, Incident NAB1714648527 and NAB1736130254 (hereafter referred to as "Julie"). EOG provided notifications to New Mexico Oil Conservation District (NMOCD) District 2 via submission of an initial C-141 Release Notification (Attachment 1). This letter provides a description of the Spill Assessment and includes a request for Spill Closure. The spill area is located at N 32.67018, W -104.50915.

## Background

The site is located approximately 8.4 miles southwest of Dayton, New Mexico. The legal location for the site is Section 8, Township 19 South and Range 25 East in Eddy County, New Mexico. The spill area is located on private property. An aerial photograph and site schematic are included in Attachment 2. *The Geological Map of New Mexico* indicates the surface geology at Julie is comprised primarily of QP-Piedmont alluvial deposits from the Holocene to lower Pleistocene ages (New Mexico Bureau of Geology and Mineral Resources, 2021). The United States Department of Agriculture Web Soil Survey characterizes the soil at the site as Reagan-Upton association. The soil is well-drained with a high runoff and low to moderately high moisture levels in the profile. The karst geology potential for Julie is medium (United States Department of the Interior, Bureau of Land Management, 2018).

There is no surface water located at Julie. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located approximately 0.36 miles southwest of the site. At Julie, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

## Incident Description

Two releases occurred at Julie on May 5, 2017, and December 10, 2017 due to malfunctioning check valve on the produced water line. The first release was reported on May 23, 2017 and second release reported on December 11, 2017. Both spills involved the release of produced water resulting in the approximate total of 65 barrels (bbl.) of produced water onto the engineered pad and part of the adjacent pasture. The second release occurred on top of the

same area the first release occurred. Approximately 52 bbl. of free fluid was removed during initial spill clean-up. The New Mexico Oil Conservation Division (NMOCD) C-141 Reports: NAB1714648527 and NAB1736130254 are included in Attachment 1. The Daily Field Report (DFRs) and site photographs are included in Attachment 4.

An initial site inspection of the spill area was completed by Souder, Miller, and Associates (SMA) on February 21, 2018, which identified the area of the spill specified in the initial C-141 Reports. SMA personnel estimated the approximate extent of the release and white lined the area thereafter as required for the 811 One Call request. The Remediation Workplan was submitted by SMA and approved by NMOCD.

The approved Remediation Workplan submitted by SMA stated that the scope of work was to complete excavation of the contaminated soil and place a liner within the excavation area before backfilling. EOG requested that Vertex complete excavation to the most stringent criteria of impacted soils to meet the stipulations requested by the private landowner.

The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 1.

**Table 1. Closure Criteria for Soils Impacted by a Release**

| Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS | Constituent | Limit |
|---|---|---|
| < 50 feet | Chloride | 600 mg/kg |
| | TPH (GRO+DRO+MRO) | 100 mg/kg |
| | BTEX | 50 mg/kg |
| | Benzene | 10 mg/kg |

TDS – total dissolved solids, TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics, BTEX – benzene, toluene, ethylbenzene and xylenes

## Remedial Actions Taken

Vertex began remediation efforts on June 7, 2022, and completed confirmation sampling on August 25, 2022. Vertex personnel supervised the excavation of impacted soils throughout the remedial process. Field screening was completed on multiple sample points and consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and Titration/EC Meter (chlorides). Field screening results were used to identify areas requiring further remediation from those areas showing concentrations below determined closure criteria levels. Soils were removed to a depth of 20.5 feet bgs. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. Field screening results are presented in Table 2 Attachment 3, as well as in the DFRs in Attachment 4.

As excavation progressed sample points were used to determine areas in need of further excavation and points determined above criteria were excavated out and a new sample point was used. An excavation schematic (Figure 1) is provided to show points that were stepped out and a confirmatory schematic (Figure 2) is provided to show the square

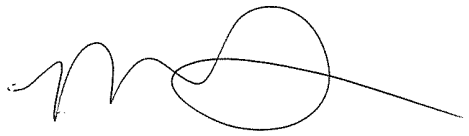
footage and sample points used for final confirmatory sampling. Field screening and laboratory results for confirmation sampling are in Table 2, Attachment 3.

Notification of confirmatory sample collection was provided to the NMOCD on multiple dates as listed: June 16, 2022, June 23, 2022, July 13, 2022, August 15, 2022, and August 22, 2022, and are included in Attachment 5. Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments. A total of 45 samples were collected for laboratory analysis following NMOCD soil sampling procedures. Total square footage of the excavation was approximately 1,815 square feet. Samples were submitted to Hall Environmental Laboratory Analysis Laboratory under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), Total Petroleum Hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and Total Chlorides (EPA Method 300.0). Laboratory results are presented in Table 2, Attachment 3 and the laboratory data report can be found in Attachment 6. All confirmatory samples collected and analyzed were below closure criteria for the site.

## Closure Request

These releases occurred prior to the passage of the Spill Rule (NMAC 19.15.29), however the NMOCD did approve a Remediation Plan to address the site. Although the remedial actions completed for the impacted area differed from the approval plan due to the landowner stipulations, the most stringent criteria of Table 1 were achieved during remediation of the site. Based off completion of these activities, EOG Resources, Inc. requests closure of the Incidents NAB1714648527 and NAB1736130254.

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 575.361.9880 or mpeppin@vertex.ca.



September 6, 2022

Monica Peppin, A.S.
PROJECT MANAGER, REPORTING

Date

## Attachments

Attachment 1. NMOCD C-141 Reports
Attachment 2. Figures
Attachment 3. Table 2 – Field screening and Laboratory Results
Attachment 4. Daily Field Report(s) with Pictures
Attachment 5. Confirmatory Sampling Notifications
Attachment 6. Laboratory Data Reports and COCs

## References

*Interactive Geologic Map.* New Mexico Bureau of Geology and Mineral Resources, (2022). Retrieved from http://geoinfo.nmt.edu

*National Wetland Inventory Surface Waters and Wetland*. United State Fish and Wildlife Service, (2022). Retrieved from https://www.fws.gov/wetlands/data/mapper.html

*Natural Resources and Wildlife Oil and Gas Releases*. New Mexico Oil Conservation Division, (2019). Santa Fe, New Mexico.

*New Mexico Cave/Karsts.* United States Department of the Interior, Bureau of Land Management, (2019) Retrieved from https://www.blm.gov/programs/recreation/recreation-programs/caves/new-mexico

*Soil Survey, New Mexico*. United States Department of Agriculture, Soil Conservation Service in Cooperation with New Mexico Agricultural Experiment Station. (1971). Retrieved from http://www.wipp.energy.gov/library/Information_Repository_A/Supplemental_Information/Chugg%20et%20al%201971%20w-map.pdf

## Limitations

This report has been prepared for the sole benefit of EOG Resources, Inc. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and EOG Resources, Inc. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

# ATTACHMENT 1

NM OIL CONSERVATION
ARTESIA DISTRICT
MAY 23 2017
RECEIVED

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

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

# Release Notification and Corrective Action

nAB1714648527

## OPERATOR

☒ Initial Report ☐ Final Report

| Name of Company | OGRID Number | Contact |
|---|---|---|
| EOG Y Resources, Inc. | 25575 | Robert Asher |
| Address | | Telephone No. |
| 104 S. 4th Street | | 575-748-1471 |
| Facility Name | | Facility Type |
| Julie #2 Battery | | Battery |

New forms can be found in the New Mexico State Website in forms: http://www.emnrd.state.nm.us/OCD/forms.html

| Surface Owner | Mineral Owner | API No. |
|---|---|---|
| Fee | Fee | 30-015-25905 |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| N | 8 | 19S | 25E | 660 | South | 1980 | West | Eddy |

**Latitude** 32.67042 **Longitude** 104.50895

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release<br>Produced Water | Volume of Release<br>5 B/PW | Volume Recovered<br>2 B/PW |
| Source of Release<br>Check Valve | Date and Hour of Occurrence<br>5/5/2017; AM | Date and Hour of Discovery<br>5/5/2017; AM |
| Was Immediate Notice Given?<br>☐ Yes ☐ No ☒ Not Required | If YES, To Whom?<br>N/A | |
| By Whom?<br>N/A | Date and Hour<br>N/A | |
| Was a Watercourse Reached?<br>☐ Yes ☒ No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
A check valve failed, causing the release. Vacuum truck(s) and roustabout crews were called.

Describe Area Affected and Cleanup Action Taken.*
An approximate area of 40'X 30'. Release was on the west side of the battery. The valves were closed, vacuum trucks were called and a roustabout crew was called to make repairs. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX. If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 10) a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted to the OCD. **Depth to Ground Water: 50-99' (approximately 72', Section 17, T19S-R25E, per the NMOSE), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 10.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature:

Printed Name: Robert Asher

Title: Environmental Supervisor

E-mail Address: Robert_Asher@eogresources.com

Date: May 23, 2017 Phone: 575-748-4217

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: Signed By

Approval Date: 5/26/17 Expiration Date: N/A

Conditions of Approval:
2RP- See attached

Attached ☐

* Attach Additional Sheets If Necessary

2RP-4225

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | NAB1714648527 |
| District RP | 2RP-4225 |
| 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: Chase Settle Title: Rep Safety & Environmental Sr

Signature: Chase Settle Date: 09/07/2022

email: chase_settle@eogresources.com Telephone: 575-748-4171

**OCD Only**

Received by: OCD Date: 9/8/2022

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: Ashley Maxwell Date: 10/11/2022

Printed Name: Ashley Maxwell Title: Environmental Specialist

NM OIL CONSERVATION
ARTESIA DISTRICT
DEC 19 2017
RECEIVED

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

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

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

# Release Notification and Corrective Action

## OPERATOR

nAB1736130254

☒ Initial Report ☐ Final Report

| | |
|---|---|
| Name of Company<br>EOG Y Resources, Inc. 255075 | Contact<br>Chase Settle |
| Address<br>104 S. 4th Street Artesia NM 88210 | Telephone No.<br>575-748-1471 |
| Facility Name<br>Julie #2 Battery | Facility Type<br>Battery |

| | | |
|---|---|---|
| Surface Owner<br>Private | Mineral Owner<br>Private | API No.<br>30-015-25905 |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| N | 8 | 19S | 25E | 660 | South | 1980 | West | Eddy |

**Latitude** 32.67018 **Longitude** -104.50915 NAD83

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release<br>Produced Water | Volume of Release<br>60 B/PW | Volume Recovered<br>50 B/PW |
| Source of Release<br>Check valve on produced water transfer line | Date and Hour of Occurrence<br>12/10/2017; PM | Date and Hour of Discovery<br>12/10/2017; 12:10 PM |
| Was Immediate Notice Given?<br>☒ Yes ☐ No ☐ Not Required | If YES, To Whom?<br>Mike Bratcher, Crystal Weaver | |
| By Whom?<br>Robert Asher | Date and Hour<br>December 11, 2017; 4:19 PM | |
| Was a Watercourse Reached?<br>☐ Yes ☒ No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.* N/A

Describe Cause of Problem and Remedial Action Taken.*
There was a failure of a check valve on a produced water transfer line, which led to the release of produced water. A vacuum truck was called to recover standing fluid and a backhoe was dispatched to excavate impacted soils.

Describe Area Affected and Cleanup Action Taken.*
The impacted area was approximately 50 feet by 70 feet outside of the battery berm on the north side of the battery. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 0) a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted to the OCD. **Depth to Ground Water: >100' (110', Section 8, T19S, R25E, per NMOSE, USGS), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

| | |
|---|---|
| Signature: Chase Settle | OIL CONSERVATION DIVISION |
| Printed Name: Chase Settle | Approved by Environmental Specialist: Accepted for record only |
| Title: Rep Safety & Environmental II | Approval Date: 12/22/17 Expiration Date: N/A |
| E-mail Address: chase_settle@eogresources.com | Conditions of Approval: see attached Attached ☒ 2RP-4531 |
| Date: December 19, 2017 Phone:575-748-4171 | |

* Attach Additional Sheets If Necessary

12/22/17 AB

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | NAB1736130254 |
| District RP | 2RP-4531 |
| 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: Chase Settle Title: Rep Safety & Environmental Sr

Signature: Chase Settle Date: 09/07/2022

email: chase_settle@eogresources.com Telephone: 575-748-4171

**OCD Only**

Received by: OCD Date: 9/8/2022

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: Ashley Maxwell Date: 10/11/2022

Printed Name: Ashley Maxwell Title: Environmental Specialist

# ATTACHMENT 2


- Base Sample (Prefixed by "BES22-")
- Excavated Wall Sample (Prefixed by "WES22-")
- Wall Sample (Prefixed by "WES22-")
- Pipeline (Aboveground)
- 4' Excavation (~973 sq. ft.)
- 6' Excavation (~922 sq. ft.)
- 20' Excavation (~303 sq. ft.)
- Lease Boundary

VERTEX

0 2.5 5 10 ft.

NAD 1983 UTM Zone 13N
Date: Aug 30/22

Map Center:
Lat: 32.670698,
Long:-104.509359

N

**Excavation Schematic**
**Julie #2 Tank Battery**

FIGURE: 1

eog resources

Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Background image from Maxar, 2021. Feature locations from GPS, Vertex Professional Services Ltd., 2022

VERSATILITY. EXPERTISE.

Document Path: G:\1-Projects_US PROJECTS\EOG Resources Inc\22E-00716 (Howell Ranch Reclamation Projects)\011 - Julie #2 Tank Battery\Figure 1 Excavation Schematic Julie #2 Tank Battery.mxd


● Base Sample (Prefixed by "BES22-")
▲ Wall Sample (Prefixed by "WES22-")
Pipeline (Aboveground)
4' Excavation (~973 sq. ft.)
6' Excavation (~922 sq. ft.)
20' Excavation (~303 sq. ft.)
Lease Boundary

VERTEX

0 2.5 5 10 ft.

NAD 1983 UTM Zone 13N
Date: Aug 31/22

Map Center:
Lat: 32.670696,
Long:-104.509366

N

**Confirmatory Schematic**
**Julie #2 Tank Battery**

FIGURE: 2

eog resources

Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Background image from Maxar, 2021. Feature locations from GPS, Vertex Professional Services Ltd., 2022

VERSATILITY. EXPERTISE.

Document Path: \\vtx-s-fs01.corp.internal\shared\vps\04 - Geomatics\1-Projects_US PROJECTS\EOG Resources Inc\22E-00716 (Howell Ranch Reclamation Projects)\011 - Julie #2 Tank Battery\Figure 2 Confirmatory Schematic Julie #2 Tank Battery.mxd

# ATTACHMENT 3

**Client Name: EOG Resources, Inc.**
**Site Name: Julie #2 Tank Battery**
**NMOCD Tracking #: nAB1714648527**
**Project #: 22E-00716-011**
**Lab Reports: 2206E65, 2207061, 2207186, 2207B81, 2207B16, 2208G88**

**Table 2. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs**

| Sample Description | | | Field Screening | | | Petroleum Hydrocarbons | | | | | | | Inorganic |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Volatile | | Extractable | | | | | |
| Sample ID | Depth (ft) | Sample Date | Volatile Organic Compounds (PID) | Extractable Organic Compounds (PetroFlag) | Chloride Concentration | Benzene | BTEX (Total) | Gasoline Range Organics (GRO) | Diesel Range Organics (DRO) | Motor Oil Range Organics (MRO) | (GRO + DRO) | Total Petroleum Hydrocarbons (TPH) | Chloride Concentration |
| | | | (ppm) | (ppm) | (ppm) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| BES22-01 | 4 | 7/1/2022 | 0 | 0 | 128 | ND | ND | ND | ND | ND | ND | ND | 340 |
| BES22-02 | 20 | 6/30/2022 | 0 | 55 | 128 | ND | ND | ND | ND | ND | ND | ND | 160 |
| BES22-03 | 4 | 7/1/2022 | 0 | 51 | 115 | ND | ND | ND | ND | ND | ND | ND | 340 |
| BES22-04 | 6 | 7/1/2022 | 0 | 44 | 415 | ND | ND | ND | ND | ND | ND | ND | 74 |
| BES22-05 | 6 | 7/1/2022 | 0 | 113 | 310 | ND | ND | ND | ND | ND | ND | ND | 84 |
| BES22-06 | 6 | 7/1/2022 | 0 | 84 | 31 | ND | ND | ND | ND | ND | ND | ND | ND |
| BES22-07 | 6 | 7/1/2022 | 0 | 74 | 12 | ND | ND | ND | ND | ND | ND | ND | ND |
| BES22-08 | 6 | 7/1/2022 | 0 | 70 | 31 | ND | ND | ND | ND | ND | ND | ND | ND |
| BES22-09 | 20 | 7/21/2022 | 0 | 67 | 447 | ND | ND | ND | ND | ND | ND | ND | **890** |
| BES22-09 | 20.5 | 8/25/2022 | 0 | - | 274 | ND | ND | ND | ND | ND | ND | ND | ND |
| WES22-01 | 2 | 6/30/2022 | 0 | 9 | 49 | ND | ND | ND | ND | ND | ND | ND | ND |
| WES22-05 | 2 | 6/27/2022 | 0 | 17 | 368 | ND | ND | ND | ND | ND | ND | ND | 360 |
| WES22-05 | 4 | 6/27/2022 | 0 | 23 | 451 | ND | ND | ND | ND | ND | ND | ND | 430 |
| WES22-08 | 2 | 6/30/2022 | 0 | 34 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| WES22-09 | 2 | 6/30/2022 | 0 | 54 | 305 | ND | ND | ND | ND | ND | ND | ND | ND |
| WES22-15 | 5 | 6/29/2022 | 0 | 34 | ND | ND | ND | ND | ND | ND | ND | ND | 71 |
| WES22-15 | 10 | 6/29/2022 | 0 | 64 | 355 | ND | ND | ND | ND | ND | ND | ND | 100 |
| WES22-15 | 15 | 6/29/2022 | 0 | 161 | 408 | ND | ND | ND | ND | ND | ND | ND | 210 |
| WES22-19 | 2 | 6/27/2022 | 0 | 52 | 480 | ND | ND | ND | ND | ND | ND | ND | 290 |
| WES22-19 | 4 | 6/27/2022 | 0 | 51 | 425 | ND | ND | ND | ND | ND | ND | ND | 360 |
| WES22-24 | 2 | 6/30/2022 | 0 | 0 | 259 | ND | ND | ND | ND | ND | ND | ND | 130 |
| WES22-24 | 4 | 6/30/2022 | 0 | 73 | 193 | ND | ND | ND | ND | ND | ND | ND | 370 |
| WES22-25 | 2 | 6/27/2022 | 0 | 28 | 421 | ND | ND | ND | ND | ND | ND | ND | 150 |
| WES22-25 | 4 | 6/27/2022 | 0 | 21 | 495 | ND | ND | ND | ND | ND | ND | ND | 210 |
| WES22-29 | 10 | 6/29/2022 | 0 | 14 | 53 | ND | ND | ND | ND | ND | ND | ND | 95 |
| WES22-29 | 16 | 6/29/2022 | 0 | 64 | 106 | ND | ND | ND | ND | ND | ND | ND | ND |
| WES22-35 | 2 | 6/30/2022 | 0 | 59 | 239 | ND | ND | ND | ND | ND | ND | ND | ND |
| WES22-35 | 4 | 6/30/2022 | 0 | 116 | 233 | ND | ND | ND | ND | ND | ND | ND | 64 |
| WES22-36 | 2 | 6/30/2022 | 0 | 23 | 142 | ND | ND | ND | ND | ND | ND | ND | ND |
| WES22-36 | 4 | 6/30/2022 | 0 | 31 | ND | ND | ND | ND | ND | ND | ND | ND | 310 |
| WES22-39 | 2 | 7/20/2022 | 0 | 12 | ND | ND | ND | ND | ND | ND | ND | ND | 100 |
| WES22-39 | 4 | 7/20/2022 | 0 | 64 | ND | ND | ND | ND | ND | ND | ND | ND | 170 |
| WES22-40 | 2 | 7/20/2022 | 0 | 34 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| WES22-41 | 10 | 7/21/2022 | 0 | 25 | 245 | ND | ND | ND | ND | ND | ND | ND | ND |
| WES22-42 | 16 | 7/21/2022 | 0 | 45 | 236 | ND | ND | ND | ND | ND | ND | ND | ND |

"ND" Not Detected at the Reporting Limit
"-" indicates not analyzed/assessed
**Bold and green shaded indicates exceedance outside of NMOCD Reclamation Criteria (off-pad)**

# ATTACHMENT 4

# Daily Site Visit Report

| | | | |
|---|---|---|---|
| Client: | EOG Resources Inc. | Inspection Date: | 6/7/2022 |
| Site Location Name: | Julie #2 Battery | Report Run Date: | 6/7/2022 10:12 PM |
| Client Contact Name: | Chase Settle | API #: | |
| Client Contact Phone #: | 575-703-6537 | | |
| Unique Project ID | | Project Owner: | |
| Project Reference # | | Project Manager: | |

## Summary of Times

| | |
|---|---|
| Arrived at Site | 6/7/2022 8:10 AM |
| Departed Site | 6/7/2022 3:15 PM |

## Field Notes

**9:16** Arrived on site to begin remediation for historical release.

**9:16** Secondary line sweep was performed. Two small pieces of metal found. No lines found.

**9:26** Standard is currently working to hand spot pipeline in the area of the excavation. They will be working to get it fully exposed before digging out the proposed polygon

**9:28** Once all pipelines are exposed and crew is aware of them, we will excavate the proposed excavation area down to 4’ and begin sampling.

## Next Steps & Recommendations

**1** Continue remediation tomorrow

# Daily Site Visit Report

## Site Photos

**Viewing Direction**: East

Excavation area

**Viewing Direction**: Southeast

Excavation area

**Viewing Direction**: West

Current excavation

**Viewing Direction**: Northeast

Current excavation

# Daily Site Visit Report

## Daily Site Visit Signature

**Inspector:** Chance Dixon

**Signature:** 

Signature

# Daily Site Visit Report

| | | | |
|---|---|---|---|
| Client: | EOG Resources Inc. | Inspection Date: | 7/20/2022 |
| Site Location Name: | Julie #2 Battery | Report Run Date: | 7/20/2022 11:09 PM |
| Client Contact Name: | Chase Settle | API #: | |
| Client Contact Phone #: | 575-703-6537 | | |
| Unique Project ID | | Project Owner: | |
| Project Reference # | | Project Manager: | |

## Summary of Times

| | |
|---|---|
| Arrived at Site | 7/20/2022 8:00 AM |
| Departed Site | 7/20/2022 3:45 PM |

## Field Notes

**8:22** Water truck spraying road and loading area

**8:24** Safety meeting complete, running line finder in sampling areas

**8:33** Loader arrived on site with more skids

**8:57** Standard coming up with a plan for how to support the produced water line

**10:20** “Clean” sample at WES22-37 came back hot on titration. Will continue excavating

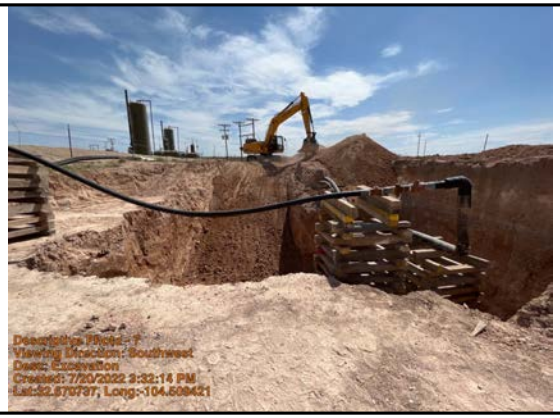
**15:33** Sent out 5 truck loads

## Next Steps & Recommendations

**1** Sample north and east walls of 20’ excavation

**2** Continue hauling out dirt

# Daily Site Visit Report

| **Viewing Direction**: South | **Viewing Direction**: Southwest |
|---|---|
|  |  |
| Setting up for excavation under pipe | Supports installed |
| **Viewing Direction**: Southwest | **Viewing Direction**: South |
|  |  |
| Excavation | Excavation |

# Daily Site Visit Report

## Site Photos

**Viewing Direction**: South

Excavation this morning

**Viewing Direction**: East

20’ excavation, will need some more excavation and stabilization before we can sample

**Viewing Direction**: South


Clean wall

# Daily Site Visit Report

## Daily Site Visit Signature

**Inspector:** Sally Carttar

**Signature:** 

# ATTACHMENT 5

## Monica Peppin

**From:** Chase Settle <Chase_Settle@eogresources.com>
**Sent:** Thursday, June 16, 2022 11:50 AM
**To:** Monica Peppin
**Cc:** Michael Moffitt
**Subject:** FW: Julie 2 Battery (2RP-4425 & 2RP-4531) Sampling Notification

---

**From:** Tina Huerta <Tina_Huerta@eogresources.com>
**Sent:** Thursday, June 16, 2022 9:45 AM
**To:** Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
**Cc:** Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
**Subject:** Julie 2 Battery (2RP-4425 & 2RP-4531) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Julie 2 Battery
N-8-19S-25E; Eddy County, NM
2RP-4425 & 2RP-4531

Sampling will begin at 10:00 a.m. on Monday, June 20, 2022 through Friday, June 24, 2022.

Thank you,

*Tina Huerta*
*Regulatory Specialist*
*Direct: 575.748.4168*
*Cell: 575.703.3121*
*Email:* tina_huerta@eogresources.com

eog resources
**Artesia Division**

## Monica Peppin

**From:** Chase Settle <Chase_Settle@eogresources.com>
**Sent:** Monday, June 27, 2022 7:52 AM
**To:** Monica Peppin
**Subject:** FW: Julie 2 Battery (2RP-4425 and 2RP-4531) Sampling Notification

---

**From:** Tina Huerta <Tina_Huerta@eogresources.com>
**Sent:** Thursday, June 23, 2022 7:23 AM
**To:** Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
**Cc:** Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
**Subject:** Julie 2 Battery (2RP-4425 and 2RP-4531) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Julie 2 Battery
N-8-19S-25E
Eddy County, NM
2RP-4425 and 2RP-4531

Sampling will begin at 8:00 a.m. on Monday, June 27, 2022 and continue through Friday, July 1, 2022.

Thank you,

*Tina Huerta*
*Regulatory Specialist*
*Direct: 575.748.4168*
*Cell: 575.703.3121*
*Email:* tina_huerta@eogresources.com

eog resources
**Artesia Division**

## Monica Peppin

**From:** Chase Settle <Chase_Settle@eogresources.com>
**Sent:** Thursday, July 14, 2022 11:19 AM
**To:** Monica Peppin
**Cc:** Michael Moffitt
**Subject:** FW: Julie 2 Battery (2RP-4425 and 2RP-4531) Sampling Notification

---

**From:** Tina Huerta <Tina_Huerta@eogresources.com>
**Sent:** Wednesday, July 13, 2022 4:39 PM
**To:** Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
**Cc:** Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
**Subject:** Julie 2 Battery (2RP-4425 and 2RP-4531) Sampling Notification

Good Afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Julie 2 Battery
N-8-19S-25E
Eddy County, NM
2RP-4425 and 2RP-4531

Sampling will begin at 8:00 a.m. on Monday, July 18, 2022 and continue through Friday, July 22, 2022.

Thank you,

*Tina Huerta*
*Regulatory Specialist*
*Direct: 575.748.4168*
*Cell: 575.703.3121*
*Email:* tina_huerta@eogresources.com

eog resources
**Artesia Division**

**From:** Chase Settle
**To:** Michael Moffitt; Monica Peppin
**Subject:** FW: Julie 2 Battery (2RP-4425 and 2RP-4531) Sampling Notification
**Date:** August 22, 2022 12:51:55 PM
**Attachments:**

---

**From:** Tina Huerta <Tina_Huerta@eogresources.com>
**Sent:** Monday, August 22, 2022 12:50 PM
**To:** Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
**Cc:** Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
**Subject:** Julie 2 Battery (2RP-4425 and 2RP-4531) Sampling Notification

Good Afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Julie 2 Battery
N-8-19S-25E
Eddy County, NM
2RP-4425 and 2RP-4531

Sampling will begin at 1:00 p.m. on Wednesday, August 24, 2022, and possibly be continuous through Friday, August 26, 2022.

Thank you,

*Tina Huerta*
*Regulatory Specialist*
*Direct: 575.748.4168*
*Cell: 575.703.3121*
*Email:* tina_huerta@eogresources.com

eog resources
**Artesia Division**

## Monica Peppin

**From:** Chase Settle <Chase_Settle@eogresources.com>
**Sent:** August 17, 2022 1:53 PM
**To:** Michael Moffitt; Monica Peppin
**Subject:** FW: Julie 2 Battery (2RP-4425 and 2RP-4531) Sampling Notification

---

**From:** Tina Huerta <Tina_Huerta@eogresources.com>
**Sent:** Monday, August 15, 2022 4:37 PM
**To:** Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
**Cc:** Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
**Subject:** Julie 2 Battery (2RP-4425 and 2RP-4531) Sampling Notification

Good Afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Julie 2 Battery
N-8-19S-25E
Eddy County, NM
2RP-4425 and 2RP-4531

Sampling will begin at 8:00 a.m. on Thursday, August 18, 2022, and possibly be continuous through Friday, August 19, 2022.

Thank you,

*Tina Huerta*
*Regulatory Specialist*
*Direct: 575.748.4168*
*Cell: 575.703.3121*
*Email:* tina_huerta@eogresources.com

eog resources
**Artesia Division**

## Monica Peppin

**From:** Chase Settle <Chase_Settle@eogresources.com>
**Sent:** August 22, 2022 12:52 PM
**To:** Michael Moffitt; Monica Peppin
**Subject:** FW: Julie 2 Battery (2RP-4425 and 2RP-4531) Sampling Notification

---

**From:** Tina Huerta <Tina_Huerta@eogresources.com>
**Sent:** Monday, August 22, 2022 12:50 PM
**To:** Alan & Cheryl <ahowell@pvtn.net>; Austin Weyant <austin@atkinseng.com>; Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
**Cc:** Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
**Subject:** Julie 2 Battery (2RP-4425 and 2RP-4531) Sampling Notification

Good Afternoon,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Julie 2 Battery
N-8-19S-25E
Eddy County, NM
2RP-4425 and 2RP-4531

Sampling will begin at 1:00 p.m. on Wednesday, August 24, 2022, and possibly be continuous through Friday, August 26, 2022.

Thank you,

*Tina Huerta*
*Regulatory Specialist*
*Direct: 575.748.4168*
*Cell: 575.703.3121*
*Email:* tina_huerta@eogresources.com

eog resources
Artesia Division

# ATTACHMENT 6

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 13, 2022

Monica Peppin

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

RE: Julie 2 OrderNo.: 2206E65

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 6 sample(s) on 6/28/2022 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 **2206E65**
Date Reported: **7/13/2022**

**CLIENT:** EOG
**Client Sample ID:** WES22-05 2'
**Project:** Julie 2
**Collection Date:** 6/27/2022 10:00:00 AM
**Lab ID:** 2206E65-001 **Matrix:** SOIL **Received Date:** 6/28/2022 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **NAI** | |
| Chloride | 360 | 60 | | mg/Kg | 20 | 7/5/2022 6:24:54 PM | 68541 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** | |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 7/6/2022 5:41:03 PM | 68511 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 7/6/2022 5:41:03 PM | 68511 |
| Surr: DNOP | 89.6 | 51.1-141 | | %Rec | 1 | 7/6/2022 5:41:03 PM | 68511 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/1/2022 2:54:54 AM | 68435 |
| Surr: BFB | 98.1 | 37.7-212 | | %Rec | 1 | 7/1/2022 2:54:54 AM | 68435 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/1/2022 2:54:54 AM | 68435 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 7/1/2022 2:54:54 AM | 68435 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 7/1/2022 2:54:54 AM | 68435 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 7/1/2022 2:54:54 AM | 68435 |
| Surr: 4-Bromofluorobenzene | 91.9 | 70-130 | | %Rec | 1 | 7/1/2022 2:54:54 AM | 68435 |

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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# Hall Environmental Analysis Laboratory, Inc.

**Analytical Report**
Lab Order **2206E65**
Date Reported: **7/13/2022**

**CLIENT:** EOG
**Client Sample ID:** WES22-05 4'
**Project:** Julie 2
**Collection Date:** 6/27/2022 10:05:00 AM
**Lab ID:** 2206E65-002 **Matrix:** SOIL **Received Date:** 6/28/2022 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **NAI** | |
| Chloride | 430 | 60 | | mg/Kg | 20 | 7/5/2022 7:02:07 PM | 68541 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** | |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 7/6/2022 6:44:23 PM | 68511 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 7/6/2022 6:44:23 PM | 68511 |
| Surr: DNOP | 96.2 | 51.1-141 | | %Rec | 1 | 7/6/2022 6:44:23 PM | 68511 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 7/1/2022 3:18:19 AM | 68435 |
| Surr: BFB | 104 | 37.7-212 | | %Rec | 1 | 7/1/2022 3:18:19 AM | 68435 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/1/2022 3:18:19 AM | 68435 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 7/1/2022 3:18:19 AM | 68435 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 7/1/2022 3:18:19 AM | 68435 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 7/1/2022 3:18:19 AM | 68435 |
| Surr: 4-Bromofluorobenzene | 93.3 | 70-130 | | %Rec | 1 | 7/1/2022 3:18:19 AM | 68435 |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2206E65**
Date Reported: **7/13/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** WES22-19 2'
**Project:** Julie 2
**Collection Date:** 6/27/2022 10:10:00 AM
**Lab ID:** 2206E65-003 **Matrix:** SOIL **Received Date:** 6/28/2022 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **NAI** | |
| Chloride | 290 | 60 | | mg/Kg | 20 | 7/5/2022 7:14:31 PM | 68541 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** | |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 7/6/2022 7:08:21 PM | 68511 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/6/2022 7:08:21 PM | 68511 |
| Surr: DNOP | 87.9 | 51.1-141 | | %Rec | 1 | 7/6/2022 7:08:21 PM | 68511 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 7/1/2022 3:41:50 AM | 68435 |
| Surr: BFB | 104 | 37.7-212 | | %Rec | 1 | 7/1/2022 3:41:50 AM | 68435 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 7/1/2022 3:41:50 AM | 68435 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 7/1/2022 3:41:50 AM | 68435 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 7/1/2022 3:41:50 AM | 68435 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 7/1/2022 3:41:50 AM | 68435 |
| Surr: 4-Bromofluorobenzene | 93.1 | 70-130 | | %Rec | 1 | 7/1/2022 3:41:50 AM | 68435 |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2206E65**
Date Reported: **7/13/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** WES22-19 4'
**Project:** Julie 2
**Collection Date:** 6/27/2022 10:15:00 AM
**Lab ID:** 2206E65-004 **Matrix:** SOIL **Received Date:** 6/28/2022 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **NAI** | |
| Chloride | 360 | 60 | | mg/Kg | 20 | 7/5/2022 7:51:45 PM | 68541 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** | |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 7/6/2022 7:32:17 PM | 68511 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 7/6/2022 7:32:17 PM | 68511 |
| Surr: DNOP | 88.2 | 51.1-141 | | %Rec | 1 | 7/6/2022 7:32:17 PM | 68511 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 7/1/2022 4:05:27 AM | 68435 |
| Surr: BFB | 104 | 37.7-212 | | %Rec | 1 | 7/1/2022 4:05:27 AM | 68435 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/1/2022 4:05:27 AM | 68435 |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 7/1/2022 4:05:27 AM | 68435 |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 7/1/2022 4:05:27 AM | 68435 |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 7/1/2022 4:05:27 AM | 68435 |
| Surr: 4-Bromofluorobenzene | 92.0 | 70-130 | | %Rec | 1 | 7/1/2022 4:05:27 AM | 68435 |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2206E65**
Date Reported: **7/13/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** WES22-25 2'
**Project:** Julie 2
**Collection Date:** 6/27/2022 10:20:00 AM
**Lab ID:** 2206E65-005 **Matrix:** SOIL **Received Date:** 6/28/2022 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **NAI** | |
| Chloride | 150 | 60 | | mg/Kg | 20 | 7/5/2022 8:04:09 PM | 68541 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** | |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 7/6/2022 7:56:18 PM | 68511 |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 7/6/2022 7:56:18 PM | 68511 |
| Surr: DNOP | 87.0 | 51.1-141 | | %Rec | 1 | 7/6/2022 7:56:18 PM | 68511 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 7/1/2022 4:28:51 AM | 68435 |
| Surr: BFB | 103 | 37.7-212 | | %Rec | 1 | 7/1/2022 4:28:51 AM | 68435 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/1/2022 4:28:51 AM | 68435 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 7/1/2022 4:28:51 AM | 68435 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 7/1/2022 4:28:51 AM | 68435 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 7/1/2022 4:28:51 AM | 68435 |
| Surr: 4-Bromofluorobenzene | 92.2 | 70-130 | | %Rec | 1 | 7/1/2022 4:28:51 AM | 68435 |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2206E65**
Date Reported: **7/13/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** WES22-25 4'
**Project:** Julie 2
**Collection Date:** 6/27/2022 10:25:00 AM
**Lab ID:** 2206E65-006 **Matrix:** SOIL **Received Date:** 6/28/2022 8:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JMT** | |
| Chloride | 210 | 59 | | mg/Kg | 20 | 7/5/2022 5:54:56 PM | 68553 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** | |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 7/6/2022 9:08:04 PM | 68543 |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 7/6/2022 9:08:04 PM | 68543 |
| Surr: DNOP | 55.8 | 51.1-141 | | %Rec | 1 | 7/6/2022 9:08:04 PM | 68543 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 7/1/2022 11:08:23 AM | 68445 |
| Surr: BFB | 94.0 | 37.7-212 | | %Rec | 1 | 7/1/2022 11:08:23 AM | 68445 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/1/2022 11:08:23 AM | 68445 |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 7/1/2022 11:08:23 AM | 68445 |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 7/1/2022 11:08:23 AM | 68445 |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 7/1/2022 11:08:23 AM | 68445 |
| Surr: 4-Bromofluorobenzene | 89.0 | 70-130 | | %Rec | 1 | 7/1/2022 11:08:23 AM | 68445 |

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 | Estimated value |
| 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 interference | | |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E65**

***13-Jul-22***

**Client:** EOG

**Project:** Julie 2

| Sample ID: **MB-68553** | SampType: **mblk** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68553** | RunNo: **89243** |
| Prep Date: **7/5/2022** | Analysis Date: **7/5/2022** | SeqNo: **3172487** Units: **mg/Kg** |

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

| Sample ID: **LCS-68553** | SampType: **lcs** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68553** | RunNo: **89243** |
| Prep Date: **7/5/2022** | Analysis Date: **7/5/2022** | SeqNo: **3172488** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 14 | 1.5 | 15.00 | 0 | 93.1 | 90 | 110 | | | |

| Sample ID: **MB-68541** | SampType: **mblk** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68541** | RunNo: **89250** |
| Prep Date: **7/5/2022** | Analysis Date: **7/5/2022** | SeqNo: **3173124** Units: **mg/Kg** |

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

| Sample ID: **LCS-68541** | SampType: **lcs** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68541** | RunNo: **89250** |
| Prep Date: **7/5/2022** | Analysis Date: **7/5/2022** | SeqNo: **3173125** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 14 | 1.5 | 15.00 | 0 | 91.9 | 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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E65**

***13-Jul-22***

**Client:** EOG

**Project:** Julie 2

| Sample ID: **LCS-68511** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68511** | RunNo: **89240** |
| Prep Date: **7/1/2022** | Analysis Date: **7/5/2022** | SeqNo: **3172709** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 43 | 15 | 50.00 | 0 | 85.6 | 64.4 | 127 | | | |
| Surr: DNOP | 4.6 | | 5.000 | | 92.4 | 51.1 | 141 | | | |

| Sample ID: **MB-68511** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68511** | RunNo: **89240** |
| Prep Date: **7/1/2022** | Analysis Date: **7/5/2022** | SeqNo: **3172711** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | ND | 15 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 8.7 | | 10.00 | | 87.3 | 51.1 | 141 | | | |

| Sample ID: **LCS-68543** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68543** | RunNo: **89259** |
| Prep Date: **7/5/2022** | Analysis Date: **7/6/2022** | SeqNo: **3173754** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 42 | 15 | 50.00 | 0 | 83.3 | 64.4 | 127 | | | |
| Surr: DNOP | 4.3 | | 5.000 | | 85.8 | 51.1 | 141 | | | |

| Sample ID: **MB-68543** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68543** | RunNo: **89259** |
| Prep Date: **7/5/2022** | Analysis Date: **7/6/2022** | SeqNo: **3173755** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | ND | 15 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 8.8 | | 10.00 | | 88.4 | 51.1 | 141 | | | |

**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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E65**

***13-Jul-22***

**Client:** EOG

**Project:** Julie 2

| Sample ID: **lcs-68435** | SampType: **LCS** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68435** | RunNo: **89164** |
| Prep Date: **6/29/2022** | Analysis Date: **6/30/2022** | SeqNo: **3169081** 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 | 90.3 | 72.3 | 137 | | | |
| Surr: BFB | 1900 | | 1000 | | 191 | 37.7 | 212 | | | |

| Sample ID: **mb-68435** | SampType: **MBLK** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68435** | RunNo: **89164** |
| Prep Date: **6/29/2022** | Analysis Date: **6/30/2022** | SeqNo: **3169083** 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 | 910 | | 1000 | | 90.7 | 37.7 | 212 | | | |

| Sample ID: **mb-68445** | SampType: **MBLK** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68445** | RunNo: **89209** |
| Prep Date: **6/29/2022** | Analysis Date: **7/1/2022** | SeqNo: **3171002** 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 | 970 | | 1000 | | 96.9 | 37.7 | 212 | | | |

| Sample ID: **lcs-68445** | SampType: **LCS** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68445** | RunNo: **89209** |
| Prep Date: **6/29/2022** | Analysis Date: **7/1/2022** | SeqNo: **3171003** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 28 | 5.0 | 25.00 | 0 | 113 | 72.3 | 137 | | | |
| Surr: BFB | 2100 | | 1000 | | 213 | 37.7 | 212 | | | 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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2206E65**

***13-Jul-22***

**Client:** EOG

**Project:** Julie 2

| Sample ID: **lcs-68435** | SampType: **LCS** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68435** | RunNo: **89164** |
| Prep Date: **6/29/2022** | Analysis Date: **6/30/2022** | SeqNo: **3169125** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.88 | 0.025 | 1.000 | 0 | 87.6 | 80 | 120 | | | |
| Toluene | 0.90 | 0.050 | 1.000 | 0 | 89.8 | 80 | 120 | | | |
| Ethylbenzene | 0.90 | 0.050 | 1.000 | 0 | 89.6 | 80 | 120 | | | |
| Xylenes, Total | 2.7 | 0.10 | 3.000 | 0 | 88.4 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.83 | | 1.000 | | 83.0 | 70 | 130 | | | |

| Sample ID: **mb-68435** | SampType: **MBLK** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68435** | RunNo: **89164** |
| Prep Date: **6/29/2022** | Analysis Date: **6/30/2022** | SeqNo: **3169126** 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 | 0.85 | | 1.000 | | 84.9 | 70 | 130 | | | |

| Sample ID: **mb-68445** | SampType: **MBLK** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68445** | RunNo: **89209** |
| Prep Date: **6/29/2022** | Analysis Date: **7/1/2022** | SeqNo: **3171086** 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 | 0.91 | | 1.000 | | 90.9 | 70 | 130 | | | |

| Sample ID: **LCS-68445** | SampType: **LCS** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68445** | RunNo: **89209** |
| Prep Date: **6/29/2022** | Analysis Date: **7/1/2022** | SeqNo: **3171087** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.88 | 0.025 | 1.000 | 0 | 87.6 | 80 | 120 | | | |
| Toluene | 0.91 | 0.050 | 1.000 | 0 | 91.3 | 80 | 120 | | | |
| Ethylbenzene | 0.93 | 0.050 | 1.000 | 0 | 92.7 | 80 | 120 | | | |
| Xylenes, Total | 2.8 | 0.10 | 3.000 | 0 | 93.2 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.90 | | 1.000 | | 89.6 | 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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| 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: www.hallenvironmental.com*

# Sample Log-In Check List

Client Name: **EOG** Work Order Number: **2206E65** RcptNo: 1

Received By: **Desiree Dominguez** **6/28/2022 8:00:00 AM** DD

Completed By: **Desiree Dominguez** **6/28/2022 8:30:01 AM** DD

Reviewed By: KPK 6-28-22

## 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: JN 6/28/22

## 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 | 5.5 | Good | | | | |

# Chain-of-Custody Record

Client: EOG / Vertex

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: Julie #2

Project #: 22E-00716-011

Project Manager: Monica Peppin

Sampler: CD

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 5.6 - 0.1 = 5.5 (°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. 2206E65 | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/27 | 10:00 | Soil | WESS-05 2' | 4 oz | Ice | -001 | ✓ | ✓ | | | | | ✓ | | | |
| | 10:05 | | WESS-05 4' | | | -002 | | | | | | | | | | |
| | 10:10 | | WESS-19 2' | | | -003 | | | | | | | | | | |
| | 10:15 | | WESS-19 4' | | | -004 | | | | | | | | | | |
| | 10:20 | | WESS-25 2' | | | -005 | | | | | | | | | | |
| | 10:25 | | WESS-25 4' | | | -006 | | | | | | | | | | |

| Date: | Time: | Relinquished by: | Received by: | Via: | Date | Time |
|---|---|---|---|---|---|---|
| | | | [signature] | | 6/27/22 | 1400 |
| 6/27/22 | 1900 | [signature] | [signature] | Courier | 6/28/22 | 8:00 |

Remarks: CC: Chance Dixon
Direct Bill EOG

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: www.hallenvironmental.com*

July 27, 2022

Monica Peppin

Vertex Resources Services, Inc.
3101 Boyd Drive
Carlsbad, NM 88220
TEL: (505) 506-0040
FAX

RE: Julie 2 Battery OrderNo.: 2207B16

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 3 sample(s) on 7/22/2022 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 **2207B16**
Date Reported: **7/27/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-39 0-2'
**Project:** Julie 2 Battery
**Collection Date:** 7/20/2022 1:30:00 PM
**Lab ID:** 2207B16-001 **Matrix:** SOIL **Received Date:** 7/22/2022 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **SB** |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 7/25/2022 3:50:50 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 7/25/2022 3:50:50 PM |
| Surr: DNOP | 77.2 | 21-129 | | %Rec | 1 | 7/25/2022 3:50:50 PM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/25/2022 2:31:39 PM |
| Surr: BFB | 108 | 37.7-212 | | %Rec | 1 | 7/25/2022 2:31:39 PM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/25/2022 2:31:39 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/25/2022 2:31:39 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/25/2022 2:31:39 PM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/25/2022 2:31:39 PM |
| Surr: 4-Bromofluorobenzene | 100 | 70-130 | | %Rec | 1 | 7/25/2022 2:31:39 PM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** |
| Chloride | 100 | 60 | | mg/Kg | 20 | 7/22/2022 7:17:19 PM |

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

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207B16**
Date Reported: **7/27/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-39 2-4'
**Project:** Julie 2 Battery
**Collection Date:** 7/20/2022 1:40:00 PM
**Lab ID:** 2207B16-002 **Matrix:** SOIL
**Received Date:** 7/22/2022 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **SB** |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 7/25/2022 4:04:21 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/25/2022 4:04:21 PM |
| Surr: DNOP | 80.9 | 21-129 | | %Rec | 1 | 7/25/2022 4:04:21 PM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/25/2022 3:43:06 PM |
| Surr: BFB | 110 | 37.7-212 | | %Rec | 1 | 7/25/2022 3:43:06 PM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/25/2022 3:43:06 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/25/2022 3:43:06 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/25/2022 3:43:06 PM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 7/25/2022 3:43:06 PM |
| Surr: 4-Bromofluorobenzene | 102 | 70-130 | | %Rec | 1 | 7/25/2022 3:43:06 PM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** |
| Chloride | 170 | 60 | | mg/Kg | 20 | 7/22/2022 7:54:23 PM |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207B16**
Date Reported: **7/27/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-40 0-4'
**Project:** Julie 2 Battery
**Collection Date:** 7/20/2022 1:50:00 PM
**Lab ID:** 2207B16-003 **Matrix:** SOIL
**Received Date:** 7/22/2022 7:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **SB** |
| Diesel Range Organics (DRO) | ND | 13 | | mg/Kg | 1 | 7/25/2022 4:18:20 PM |
| Motor Oil Range Organics (MRO) | ND | 44 | | mg/Kg | 1 | 7/25/2022 4:18:20 PM |
| Surr: DNOP | 65.0 | 21-129 | | %Rec | 1 | 7/25/2022 4:18:20 PM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/25/2022 4:54:38 PM |
| Surr: BFB | 105 | 37.7-212 | | %Rec | 1 | 7/25/2022 4:54:38 PM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/25/2022 4:54:38 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/25/2022 4:54:38 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/25/2022 4:54:38 PM |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 7/25/2022 4:54:38 PM |
| Surr: 4-Bromofluorobenzene | 98.2 | 70-130 | | %Rec | 1 | 7/25/2022 4:54:38 PM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/22/2022 8:06:44 PM |

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

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Estimated value |
| 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 interference | | |

# QC SUMMARY REPORT
## Hall Environmental Analysis Laboratory, Inc.

WO#: **2207B16**
***27-Jul-22***

**Client:** Vertex Resources Services, Inc.
**Project:** Julie 2 Battery

| Sample ID: **MB-69006** | SampType: **mblk** | TestCode: **EPA Method 300.0: Anions** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **PBS** | Batch ID: **69006** | RunNo: **89746** | | | | | | | |
| Prep Date: **7/22/2022** | Analysis Date: **7/22/2022** | SeqNo: **3195741** | Units: **mg/Kg** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: **LCS-69006** | SampType: **lcs** | TestCode: **EPA Method 300.0: Anions** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **LCSS** | Batch ID: **69006** | RunNo: **89746** | | | | | | | |
| Prep Date: **7/22/2022** | Analysis Date: **7/22/2022** | SeqNo: **3195742** | 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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT
## Hall Environmental Analysis Laboratory, Inc.

WO#: **2207B16**
***27-Jul-22***

**Client:** Vertex Resources Services, Inc.
**Project:** Julie 2 Battery

Sample ID: **MB-68995** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **68995** RunNo: **89755**
Prep Date: **7/22/2022** Analysis Date: **7/25/2022** SeqNo: **3197420** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | ND | 15 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 8.2 | | 10.00 | | 81.9 | 21 | 129 | | | |

Sample ID: **LCS-68995** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **68995** RunNo: **89755**
Prep Date: **7/22/2022** Analysis Date: **7/25/2022** SeqNo: **3197422** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 43 | 15 | 50.00 | 0 | 85.5 | 64.4 | 127 | | | |
| Surr: DNOP | 3.8 | | 5.000 | | 76.9 | 21 | 129 | | | |

Sample ID: **2207B16-001AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **WES22-39 0-2'** Batch ID: **68995** RunNo: **89755**
Prep Date: **7/22/2022** Analysis Date: **7/25/2022** SeqNo: **3197450** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 34 | 14 | 47.85 | 0 | 71.5 | 36.1 | 154 | | | |
| Surr: DNOP | 4.0 | | 4.785 | | 82.8 | 21 | 129 | | | |

Sample ID: **2207B16-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **WES22-39 0-2'** Batch ID: **68995** RunNo: **89755**
Prep Date: **7/22/2022** Analysis Date: **7/25/2022** SeqNo: **3197452** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 37 | 14 | 47.71 | 0 | 76.9 | 36.1 | 154 | 6.98 | 33.9 | |
| Surr: DNOP | 3.7 | | 4.771 | | 77.6 | 21 | 129 | 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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2207B16**

***27-Jul-22***

**Client:** Vertex Resources Services, Inc.

**Project:** Julie 2 Battery

Sample ID: **mb-68990** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **68990** RunNo: **89759**

Prep Date: **7/22/2022** Analysis Date: **7/25/2022** SeqNo: **3196558** 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 | 1000 | | 1000 | | 100 | 37.7 | 212 | | | |

Sample ID: **lcs-68990** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **68990** RunNo: **89759**

Prep Date: **7/22/2022** Analysis Date: **7/25/2022** SeqNo: **3196559** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 26 | 5.0 | 25.00 | 0 | 105 | 72.3 | 137 | | | |
| Surr: BFB | 2000 | | 1000 | | 201 | 37.7 | 212 | | | |

Sample ID: **2207b16-001ams** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **WES22-39 0-2'** Batch ID: **68990** RunNo: **89759**

Prep Date: **7/22/2022** Analysis Date: **7/25/2022** SeqNo: **3196561** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 26 | 4.9 | 24.46 | 0 | 106 | 70 | 130 | | | |
| Surr: BFB | 2100 | | 978.5 | | 215 | 37.7 | 212 | | | S |

Sample ID: **2207b16-001amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **WES22-39 0-2'** Batch ID: **68990** RunNo: **89759**

Prep Date: **7/22/2022** Analysis Date: **7/25/2022** SeqNo: **3196562** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 24 | 4.9 | 24.39 | 0 | 99.4 | 70 | 130 | 6.42 | 20 | |
| Surr: BFB | 2000 | | 975.6 | | 202 | 37.7 | 212 | 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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2207B16**

***27-Jul-22***

**Client:** Vertex Resources Services, Inc.

**Project:** Julie 2 Battery

Sample ID: **mb-68990** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **68990** RunNo: **89759**

Prep Date: **7/22/2022** Analysis Date: **7/25/2022** SeqNo: **3196597** 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 | 0.97 | | 1.000 | | 97.3 | 70 | 130 | | | |

Sample ID: **LCS-68990** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **68990** RunNo: **89759**

Prep Date: **7/22/2022** Analysis Date: **7/25/2022** SeqNo: **3196598** 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 | 95.5 | 80 | 120 | | | |
| Toluene | 0.99 | 0.050 | 1.000 | 0 | 98.6 | 80 | 120 | | | |
| Ethylbenzene | 0.99 | 0.050 | 1.000 | 0 | 98.6 | 80 | 120 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 98.4 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 101 | 70 | 130 | | | |

Sample ID: **2207b16-002ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **WES22-39 2-4'** Batch ID: **68990** RunNo: **89759**

Prep Date: **7/22/2022** Analysis Date: **7/25/2022** SeqNo: **3196601** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.90 | 0.025 | 0.9930 | 0 | 90.6 | 68.8 | 120 | | | |
| Toluene | 0.94 | 0.050 | 0.9930 | 0 | 94.7 | 73.6 | 124 | | | |
| Ethylbenzene | 0.94 | 0.050 | 0.9930 | 0 | 95.1 | 72.7 | 129 | | | |
| Xylenes, Total | 2.8 | 0.099 | 2.979 | 0 | 94.3 | 75.7 | 126 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 0.9930 | | 101 | 70 | 130 | | | |

Sample ID: **2207b16-002amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **WES22-39 2-4'** Batch ID: **68990** RunNo: **89759**

Prep Date: **7/22/2022** Analysis Date: **7/25/2022** SeqNo: **3196602** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.94 | 0.025 | 0.9872 | 0 | 95.4 | 68.8 | 120 | 4.50 | 20 | |
| Toluene | 0.98 | 0.049 | 0.9872 | 0 | 98.8 | 73.6 | 124 | 3.70 | 20 | |
| Ethylbenzene | 0.98 | 0.049 | 0.9872 | 0 | 99.8 | 72.7 | 129 | 4.25 | 20 | |
| Xylenes, Total | 3.0 | 0.099 | 2.962 | 0 | 100 | 75.7 | 126 | 5.39 | 20 | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 0.9872 | | 103 | 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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| 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: www.hallenvironmental.com*

# Sample Log-In Check List

Client Name: **Vertex Resources Services, Inc.** Work Order Number: **2207B16** RcptNo: **1**

Received By: **Juan Rojas** **7/22/2022 7:00:00 AM**

Completed By: **Cheyenne Cason** **7/22/2022 7:35:18 AM**

Reviewed By: SC 7/22/22

## 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 7/22/22

## 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 | 1.1 | Good | Not Present | | | |

# Chain-of-Custody Record

Client: Vertex (EOG)

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 48 hour

Project Name: Julie #2 Battery

Project #: 22E-00716

Project Manager: Monica Peppin

Sampler: Sally Carthar

On Ice: ~~☐~~ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.1-0=1.1 (°C)

| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. 2207316 |
|---|---|---|---|---|---|---|
| 7/20 | 13:30 | Soil | WES22-39 0-2' | 4oz jar | ice | 001 |
| " | 13:40 | " | WES22-~~40~~ 39 2-4' | " | " | 002 |
| " | 13:50 | " | WES22-40 0-4' | " | " | 003 |

**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

**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) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | | | | | ✓ | | | | | | | | | |
| " | " | | | | | " | | | | | | | | | |
| " | " | | | | | " | | | | | | | | | |

| Date: | Time: | Relinquished by: | Received by: | Via: | Date | Time |
|---|---|---|---|---|---|---|
| 7/20 | 5:00 | Sally Carthar | | | | |
| 7/21/22 | 1900 | | | courier | 7/22/22 | 7:00 |

Remarks: direct bill EOG

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: www.hallenvironmental.com*

July 28, 2022

Monica Peppin
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Julie 2 Battery OrderNo.: 2207B81

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 3 sample(s) on 7/23/2022 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 **2207B81**
Date Reported: **7/28/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** WES22-41- 10'
**Project:** Julie 2 Battery
**Collection Date:** 7/21/2022 1:40:00 PM
**Lab ID:** 2207B81-001 **Matrix:** SOIL **Received Date:** 7/23/2022 8:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **NAI** | |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/26/2022 1:53:46 PM | 69062 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **DGH** | |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 7/27/2022 1:07:39 AM | 69038 |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/27/2022 1:07:39 AM | 69038 |
| Surr: DNOP | 90.9 | 21-129 | | %Rec | 1 | 7/27/2022 1:07:39 AM | 69038 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/25/2022 7:17:18 PM | 69014 |
| Surr: BFB | 106 | 37.7-212 | | %Rec | 1 | 7/25/2022 7:17:18 PM | 69014 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/25/2022 7:17:18 PM | 69014 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/25/2022 7:17:18 PM | 69014 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/25/2022 7:17:18 PM | 69014 |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 7/25/2022 7:17:18 PM | 69014 |
| Surr: 4-Bromofluorobenzene | 99.0 | 70-130 | | %Rec | 1 | 7/25/2022 7:17:18 PM | 69014 |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207B81**
Date Reported: **7/28/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** WES22-42 - 16'
**Project:** Julie 2 Battery
**Collection Date:** 7/21/2022 1:30:00 PM
**Lab ID:** 2207B81-002 **Matrix:** SOIL **Received Date:** 7/23/2022 8:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **NAI** | |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/26/2022 2:06:10 PM | 69062 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **DGH** | |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 7/27/2022 2:21:23 AM | 69038 |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 7/27/2022 2:21:23 AM | 69038 |
| Surr: DNOP | 87.7 | 21-129 | | %Rec | 1 | 7/27/2022 2:21:23 AM | 69038 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/25/2022 8:28:34 PM | 69014 |
| Surr: BFB | 105 | 37.7-212 | | %Rec | 1 | 7/25/2022 8:28:34 PM | 69014 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/25/2022 8:28:34 PM | 69014 |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/25/2022 8:28:34 PM | 69014 |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/25/2022 8:28:34 PM | 69014 |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 7/25/2022 8:28:34 PM | 69014 |
| Surr: 4-Bromofluorobenzene | 98.7 | 70-130 | | %Rec | 1 | 7/25/2022 8:28:34 PM | 69014 |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207B81**
Date Reported: **7/28/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** EOG
**Client Sample ID:** BES22-09 - 20'
**Project:** Julie 2 Battery
**Collection Date:** 7/21/2022 1:50:00 PM
**Lab ID:** 2207B81-003 **Matrix:** SOIL **Received Date:** 7/23/2022 8:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---|---|---|---|---|---|---|---|
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **NAI** | |
| Chloride | 890 | 60 | | mg/Kg | 20 | 7/26/2022 2:18:34 PM | 69062 |
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **DGH** | |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 7/27/2022 2:45:51 AM | 69038 |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 7/27/2022 2:45:51 AM | 69038 |
| Surr: DNOP | 92.0 | 21-129 | | %Rec | 1 | 7/27/2022 2:45:51 AM | 69038 |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** | |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/25/2022 9:39:35 PM | 69014 |
| Surr: BFB | 104 | 37.7-212 | | %Rec | 1 | 7/25/2022 9:39:35 PM | 69014 |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** | |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/25/2022 9:39:35 PM | 69014 |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 7/25/2022 9:39:35 PM | 69014 |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 7/25/2022 9:39:35 PM | 69014 |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 7/25/2022 9:39:35 PM | 69014 |
| Surr: 4-Bromofluorobenzene | 98.5 | 70-130 | | %Rec | 1 | 7/25/2022 9:39:35 PM | 69014 |

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 | Estimated value |
| 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 interference | | |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2207B81**

***28-Jul-22***

**Client:** EOG

**Project:** Julie 2 Battery

| Sample ID: **MB-69062** | SampType: **mblk** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **69062** | RunNo: **89791** |
| Prep Date: **7/26/2022** | Analysis Date: **7/26/2022** | SeqNo: **3198665** Units: **mg/Kg** |

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

| Sample ID: **LCS-69062** | SampType: **lcs** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **69062** | RunNo: **89791** |
| Prep Date: **7/26/2022** | Analysis Date: **7/26/2022** | SeqNo: **3198666** 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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2207B81**

***28-Jul-22***

**Client:** EOG

**Project:** Julie 2 Battery

| Sample ID: **LCS-69038** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **69038** | RunNo: **89790** |
| Prep Date: **7/25/2022** | Analysis Date: **7/26/2022** | SeqNo: **3197677** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 43 | 15 | 50.00 | 0 | 85.5 | 64.4 | 127 | | | |
| Surr: DNOP | 4.3 | | 5.000 | | 86.7 | 21 | 129 | | | |

| Sample ID: **MB-69038** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **69038** | RunNo: **89790** |
| Prep Date: **7/25/2022** | Analysis Date: **7/26/2022** | SeqNo: **3197678** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | ND | 15 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 8.5 | | 10.00 | | 84.9 | 21 | 129 | | | |

**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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2207B81**

***28-Jul-22***

**Client:** EOG

**Project:** Julie 2 Battery

| Sample ID: **mb-69014** | SampType: **MBLK** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **69014** | RunNo: **89759** |
| Prep Date: **7/23/2022** | Analysis Date: **7/25/2022** | SeqNo: **3196547** 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 | 1100 | | 1000 | | 106 | 37.7 | 212 | | | |

| Sample ID: **lcs-69014** | SampType: **LCS** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **69014** | RunNo: **89759** |
| Prep Date: **7/23/2022** | Analysis Date: **7/25/2022** | SeqNo: **3196548** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 27 | 5.0 | 25.00 | 0 | 107 | 72.3 | 137 | | | |
| Surr: BFB | 2100 | | 1000 | | 209 | 37.7 | 212 | | | |

**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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2207B81**

***28-Jul-22***

**Client:** EOG

**Project:** Julie 2 Battery

| Sample ID: **mb-69014** | SampType: **MBLK** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **69014** | RunNo: **89759** |
| Prep Date: **7/23/2022** | Analysis Date: **7/25/2022** | SeqNo: **3196589** 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 | | 99.5 | 70 | 130 | | | |

| Sample ID: **LCS-69014** | SampType: **LCS** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **69014** | RunNo: **89759** |
| Prep Date: **7/23/2022** | Analysis Date: **7/25/2022** | SeqNo: **3196590** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.98 | 0.025 | 1.000 | 0 | 97.6 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 100 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 99.8 | 80 | 120 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 100 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 102 | 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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| 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: www.hallenvironmental.com*

# Sample Log-In Check List

Client Name: EOG Work Order Number: 2207B81 RcptNo: 1

Received By: **Juan Rojas** 7/23/2022 8:10:00 AM

Completed By: **Juan Rojas** 7/23/2022 9:20:37 AM

Reviewed By: 07/23/2022

## 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 7/23/22

## 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 | 4.2 | Good | | | | |

# Chain-of-Custody Record

Client: EOG

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 48 Hour

Project Name: Julie #2 Battery

Project #: 22E-00716-011

Project Manager: Monica Peppin

Sampler: Joseph Barajas

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 4.4-0.2=4.2 (°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. 2207B81 | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/21 | 13:40 | | WES22-41-10' | Jar | Ice | -001 | ✓ | ✓ | | | | | ✓ | | | |
| 7/21 | 13:30 | | WES22-42-16' | Jar | Ice | -002 | ✓ | ✓ | | | | | ✓ | | | |
| 7/21 | 13:50 | | BES22-09-20' | Jar | Ice | -003 | ✓ | ✓ | | | | | ✓ | | | |
| pre-sample bottle on 7/23/22 | | | | | | | | | | | | | | | | |

| Date: | Time: | Relinquished by: | Received by: | Via: | Date | Time |
|---|---|---|---|---|---|---|
| | | | | 7 | 7/22/22 | 1030 |
| 7/22/22 | 1900 | | courier | | 7/23/22 | 8:10 |

Remarks:
Direct bill to EOG

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: www.hallenvironmental.com*

August 31, 2022

Michael Moffitt

Vertex Resources Services, Inc.
3101 Boyd Drive
Carlsbad, NM 88220
TEL: (505) 506-0040
FAX

RE: Julie 2 Battery OrderNo.: 2208G88

Dear Michael Moffitt:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/27/2022 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 **2208G88**
Date Reported: **8/31/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc. **Client Sample ID:** BES22-09 20.5
**Project:** Julie 2 Battery **Collection Date:** 8/25/2022 9:00:00 AM
**Lab ID:** 2208G88-001 **Matrix:** MEOH (SOIL) **Received Date:** 8/27/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **DGH** |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 8/30/2022 1:44:15 AM |
| Motor Oil Range Organics (MRO) | ND | 46 | | mg/Kg | 1 | 8/30/2022 1:44:15 AM |
| Surr: DNOP | 88.0 | 21-129 | | %Rec | 1 | 8/30/2022 1:44:15 AM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **BRM** |
| Gasoline Range Organics (GRO) | ND | 2.9 | | mg/Kg | 1 | 8/27/2022 12:40:00 PM |
| Surr: BFB | 111 | 37.7-212 | | %Rec | 1 | 8/27/2022 12:40:00 PM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **BRM** |
| Benzene | ND | 0.015 | | mg/Kg | 1 | 8/27/2022 12:40:00 PM |
| Toluene | ND | 0.029 | | mg/Kg | 1 | 8/27/2022 12:40:00 PM |
| Ethylbenzene | ND | 0.029 | | mg/Kg | 1 | 8/27/2022 12:40:00 PM |
| Xylenes, Total | ND | 0.059 | | mg/Kg | 1 | 8/27/2022 12:40:00 PM |
| Surr: 4-Bromofluorobenzene | 103 | 70-130 | | %Rec | 1 | 8/27/2022 12:40:00 PM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | ND | 60 | | mg/Kg | 20 | 8/29/2022 3:56:08 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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2208G88**

***31-Aug-22***

**Client:** Vertex Resources Services, Inc.

**Project:** Julie 2 Battery

| Sample ID: **MB-69832** | SampType: **mblk** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **69832** | RunNo: **90648** |
| Prep Date: **8/29/2022** | Analysis Date: **8/29/2022** | SeqNo: **3239411** Units: **mg/Kg** |

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

| Sample ID: **LCS-69832** | SampType: **lcs** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **69832** | RunNo: **90648** |
| Prep Date: **8/29/2022** | Analysis Date: **8/29/2022** | SeqNo: **3239412** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 14 | 1.5 | 15.00 | 0 | 95.0 | 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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2208G88**

***31-Aug-22***

**Client:** Vertex Resources Services, Inc.

**Project:** Julie 2 Battery

| Sample ID: **LCS-69815** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **LCSS** | Batch ID: **69815** | RunNo: **90634** | | | | | | | |
| Prep Date: **8/29/2022** | Analysis Date: **8/29/2022** | SeqNo: **3238730** | Units: **%Rec** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 3.7 | | 5.000 | | 73.9 | 21 | 129 | | | |

| Sample ID: **MB-69815** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **PBS** | Batch ID: **69815** | RunNo: **90634** | | | | | | | |
| Prep Date: **8/29/2022** | Analysis Date: **8/29/2022** | SeqNo: **3238731** | Units: **%Rec** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 8.4 | | 10.00 | | 83.6 | 21 | 129 | | | |

| Sample ID: **LCS-69828** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **LCSS** | Batch ID: **69828** | RunNo: **90634** | | | | | | | |
| Prep Date: **8/29/2022** | Analysis Date: **8/30/2022** | SeqNo: **3239246** | Units: **mg/Kg** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 44 | 15 | 50.00 | 0 | 87.5 | 64.4 | 127 | | | |
| Surr: DNOP | 3.9 | | 5.000 | | 77.2 | 21 | 129 | | | |

| Sample ID: **MB-69828** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **PBS** | Batch ID: **69828** | RunNo: **90634** | | | | | | | |
| Prep Date: **8/29/2022** | Analysis Date: **8/30/2022** | SeqNo: **3239248** | Units: **mg/Kg** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 15 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.2 | | 10.00 | | 91.9 | 21 | 129 | | | |

| Sample ID: **2208G88-001AMS** | SampType: **MS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **BES22-09 20.5** | Batch ID: **69828** | RunNo: **90634** | | | | | | | |
| Prep Date: **8/29/2022** | Analysis Date: **8/30/2022** | SeqNo: **3239369** | Units: **mg/Kg** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 31 | 13 | 41.91 | 0 | 74.2 | 36.1 | 154 | | | |
| Surr: DNOP | 3.3 | | 4.191 | | 79.5 | 21 | 129 | | | |

| Sample ID: **2208G88-001AMSD** | SampType: **MSD** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Client ID: **BES22-09 20.5** | Batch ID: **69828** | RunNo: **90634** | | | | | | | |
| Prep Date: **8/29/2022** | Analysis Date: **8/30/2022** | SeqNo: **3239370** | Units: **mg/Kg** | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 33 | 13 | 44.60 | 0 | 74.7 | 36.1 | 154 | 6.89 | 33.9 | |

**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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2208G88**

***31-Aug-22***

**Client:** Vertex Resources Services, Inc.

**Project:** Julie 2 Battery

Sample ID: **2208G88-001AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **BES22-09 20.5** Batch ID: **69828** RunNo: **90634**

Prep Date: **8/29/2022** Analysis Date: **8/30/2022** SeqNo: **3239370** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: DNOP | 3.5 | | 4.460 | | 78.0 | 21 | 129 | 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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2208G88**

***31-Aug-22***

**Client:** Vertex Resources Services, Inc.

**Project:** Julie 2 Battery

Sample ID: **2.5ug gro lcs** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **A90618** RunNo: **90618**
Prep Date: Analysis Date: **8/27/2022** SeqNo: **3237682** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 28 | 5.0 | 25.00 | 0 | 113 | 72.3 | 137 | | | |
| Surr: BFB | 2300 | | 1000 | | 232 | 37.7 | 212 | | | S |

Sample ID: **mb** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **A90618** RunNo: **90618**
Prep Date: Analysis Date: **8/27/2022** SeqNo: **3237683** 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 | 1100 | | 1000 | | 108 | 37.7 | 212 | | | |

Sample ID: **2208g88-001ams** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BES22-09 20.5** Batch ID: **A90618** RunNo: **90618**
Prep Date: Analysis Date: **8/27/2022** SeqNo: **3237685** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 15 | 2.9 | 14.66 | 0 | 104 | 70 | 130 | | | |
| Surr: BFB | 1300 | | 586.2 | | 222 | 37.7 | 212 | | | S |

Sample ID: **2208g88-001amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BES22-09 20.5** Batch ID: **A90618** RunNo: **90618**
Prep Date: Analysis Date: **8/27/2022** SeqNo: **3237686** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 15 | 2.9 | 14.66 | 0 | 101 | 70 | 130 | 3.09 | 20 | |
| Surr: BFB | 1300 | | 586.2 | | 217 | 37.7 | 212 | 0 | 0 | S |

Sample ID: **2.5ug gro lcs 2** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **C90618** RunNo: **90618**
Prep Date: Analysis Date: **8/27/2022** SeqNo: **3237706** Units: **%Rec**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: BFB | 2200 | | 1000 | | 221 | 37.7 | 212 | | | S |

Sample ID: **mb 2** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **C90618** RunNo: **90618**
Prep Date: Analysis Date: **8/27/2022** SeqNo: **3237707** Units: **%Rec**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: BFB | 1000 | | 1000 | | 103 | 37.7 | 212 | | | |

**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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2208G88**

***31-Aug-22***

**Client:** Vertex Resources Services, Inc.

**Project:** Julie 2 Battery

Sample ID: **100ng btex lcs** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **B90618** RunNo: **90618**

Prep Date: Analysis Date: **8/27/2022** SeqNo: **3237718** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.96 | 0.025 | 1.000 | 0 | 95.9 | 80 | 120 | | | |
| Toluene | 0.99 | 0.050 | 1.000 | 0 | 98.6 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 100 | 80 | 120 | | | |
| Xylenes, Total | 3.0 | 0.10 | 3.000 | 0 | 99.8 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 104 | 70 | 130 | | | |

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

Client ID: **PBS** Batch ID: **B90618** RunNo: **90618**

Prep Date: Analysis Date: **8/27/2022** SeqNo: **3237719** 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 | 70 | 130 | | | |

Sample ID: **2208g88-001amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **BES22-09 20.5** Batch ID: **B90618** RunNo: **90618**

Prep Date: Analysis Date: **8/27/2022** SeqNo: **3237724** Units: **mg/Kg**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.58 | 0.015 | 0.5862 | 0 | 98.8 | 68.8 | 120 | 5.53 | 20 | |
| Toluene | 0.60 | 0.029 | 0.5862 | 0 | 102 | 73.6 | 124 | 5.60 | 20 | |
| Ethylbenzene | 0.61 | 0.029 | 0.5862 | 0 | 104 | 72.7 | 129 | 5.14 | 20 | |
| Xylenes, Total | 1.8 | 0.059 | 1.759 | 0 | 104 | 75.7 | 126 | 5.16 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.61 | | 0.5862 | | 104 | 70 | 130 | 0 | 0 | |

Sample ID: **100ng btex lcs** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **D90618** RunNo: **90618**

Prep Date: Analysis Date: **8/27/2022** SeqNo: **3237742** Units: **%Rec**

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 98.8 | 70 | 130 | | | |

Sample ID: **mb 2** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **D90618** RunNo: **90618**

Prep Date: Analysis Date: **8/27/2022** SeqNo: **3237743** Units: **%Rec**

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

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Estimated value |
| 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 interference | | |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2208G88**

***31-Aug-22***

**Client:** Vertex Resources Services, Inc.

**Project:** Julie 2 Battery

| Sample ID: **mb 2** | SampType: **MBLK** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **D90618** | RunNo: **90618** |
| Prep Date: | Analysis Date: **8/27/2022** | SeqNo: **3237743** Units: **%Rec** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: 4-Bromofluorobenzene | 0.97 | | 1.000 | | 96.8 | 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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| 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: www.hallenvironmental.com*

# Sample Log-In Check List

Client Name: Vertex Resources Services, Inc.

Work Order Number: 2208G88

RcptNo: 1

Received By: **Tracy Casarrubias** 8/27/2022 9:35:00 AM

Completed By: **Isaiah Ortiz** 8/27/2022 9:54:25 AM I.O.

Reviewed By: TMC 8/27

## 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 ☐

TO

# of preserved bottles checked for pH: 8.27.22 (<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 | 4.0 | Good | Not Present | | | |
| 2 | 4.8 | Good | Not Present | | | |
| 3 | 5.6 | Good | Not Present | | | |

# Chain-of-Custody Record

Client: EOG / Vertex

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: 24-Hour
~~☐ Standard~~ ☐ Rush

Project Name: Juliet #2 Battery

Project #: 22E-00716-011

Project Manager: Michael Moffitt

Sampler: CD

On Ice: ☑ Yes ☐ No

# of Coolers: 3

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. 2208G88 | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8/25 | 9:00 | Soil | BES22-09 20.5 | 4oz | Ice | 001 | ✓ | ✓ | | | | | ✓ | | | |

Analysis Request

Remarks: CC: Monica
Direct Bill EOG
1.) 4.0 4.0°C
2.) 4.8 > -0 = 4.8°C
3.) 5.6 5.6°C

| Date: | Time: | Relinquished by: | Received by: | Via: | Date | Time |
|---|---|---|---|---|---|---|
| | | | | | 8/26/22 | 1030 |
| Date: | Time: | Relinquished by: | Received by: | Via: Courier | Date | Time |
| 8/26/22 | 1900 | | | | 8/27/22 | 4:35 |

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: www.hallenvironmental.com*

July 14, 2022

Monica Peppin

Vertex Resources Services, Inc.
3101 Boyd Drive
Carlsbad, NM 88220
TEL: (505) 506-0040
FAX:

RE: Julie 2 Battery OrderNo.: 2207061

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 24 sample(s) on 7/2/2022 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 **2207061**
Date Reported: **7/14/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-15 5'
**Project:** Julie 2 Battery
**Collection Date:** 6/29/2022 9:00:00 AM
**Lab ID:** 2207061-001 **Matrix:** SOIL
**Received Date:** 7/2/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 7/8/2022 11:23:03 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/8/2022 11:23:03 PM |
| Surr: DNOP | 116 | 51.1-141 | | %Rec | 1 | 7/8/2022 11:23:03 PM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/7/2022 1:51:00 AM |
| Surr: BFB | 97.1 | 37.7-212 | | %Rec | 1 | 7/7/2022 1:51:00 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **RAA** |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/7/2022 1:51:00 AM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/7/2022 1:51:00 AM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/7/2022 1:51:00 AM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/7/2022 1:51:00 AM |
| Surr: 4-Bromofluorobenzene | 90.9 | 70-130 | | %Rec | 1 | 7/7/2022 1:51:00 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | 71 | 60 | | mg/Kg | 20 | 7/8/2022 7:56:20 PM |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207061**
Date Reported: **7/14/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-15 10'
**Project:** Julie 2 Battery
**Collection Date:** 6/29/2022 9:05:00 AM
**Lab ID:** 2207061-002 **Matrix:** SOIL
**Received Date:** 7/2/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 7/8/2022 11:47:00 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 7/8/2022 11:47:00 PM |
| Surr: DNOP | 70.2 | 51.1-141 | | %Rec | 1 | 7/8/2022 11:47:00 PM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/7/2022 2:11:00 AM |
| Surr: BFB | 100 | 37.7-212 | | %Rec | 1 | 7/7/2022 2:11:00 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **RAA** |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/7/2022 2:11:00 AM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/7/2022 2:11:00 AM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/7/2022 2:11:00 AM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/7/2022 2:11:00 AM |
| Surr: 4-Bromofluorobenzene | 94.9 | 70-130 | | %Rec | 1 | 7/7/2022 2:11:00 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | 100 | 60 | | mg/Kg | 20 | 7/8/2022 8:08:41 PM |

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

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207061**
Date Reported: **7/14/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-15 15'
**Project:** Julie 2 Battery
**Collection Date:** 6/29/2022 9:10:00 AM
**Lab ID:** 2207061-003 **Matrix:** SOIL **Received Date:** 7/2/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 7/9/2022 12:10:54 AM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 7/9/2022 12:10:54 AM |
| Surr: DNOP | 112 | 51.1-141 | | %Rec | 1 | 7/9/2022 12:10:54 AM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 7/7/2022 2:30:00 AM |
| Surr: BFB | 98.6 | 37.7-212 | | %Rec | 1 | 7/7/2022 2:30:00 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **RAA** |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 7/7/2022 2:30:00 AM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 7/7/2022 2:30:00 AM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 7/7/2022 2:30:00 AM |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 7/7/2022 2:30:00 AM |
| Surr: 4-Bromofluorobenzene | 93.2 | 70-130 | | %Rec | 1 | 7/7/2022 2:30:00 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | 210 | 60 | | mg/Kg | 20 | 7/8/2022 9:35:05 PM |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207061**
Date Reported: **7/14/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-28 10'
**Project:** Julie 2 Battery
**Collection Date:** 6/29/2022 9:15:00 AM
**Lab ID:** 2207061-004 **Matrix:** SOIL
**Received Date:** 7/2/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 7/9/2022 12:34:50 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 7/9/2022 12:34:50 AM |
| Surr: DNOP | 86.2 | 51.1-141 | | %Rec | 1 | 7/9/2022 12:34:50 AM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/7/2022 2:50:00 AM |
| Surr: BFB | 99.3 | 37.7-212 | | %Rec | 1 | 7/7/2022 2:50:00 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **RAA** |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/7/2022 2:50:00 AM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/7/2022 2:50:00 AM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/7/2022 2:50:00 AM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/7/2022 2:50:00 AM |
| Surr: 4-Bromofluorobenzene | 94.6 | 70-130 | | %Rec | 1 | 7/7/2022 2:50:00 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | ND | 59 | | mg/Kg | 20 | 7/8/2022 9:47:26 PM |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207061**
Date Reported: **7/14/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-28 16'
**Project:** Julie 2 Battery
**Collection Date:** 6/29/2022 9:20:00 AM
**Lab ID:** 2207061-005 **Matrix:** SOIL
**Received Date:** 7/2/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 7/9/2022 12:58:44 AM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 7/9/2022 12:58:44 AM |
| Surr: DNOP | 82.3 | 51.1-141 | | %Rec | 1 | 7/9/2022 12:58:44 AM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 7/7/2022 3:10:00 AM |
| Surr: BFB | 100 | 37.7-212 | | %Rec | 1 | 7/7/2022 3:10:00 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **RAA** |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/7/2022 3:10:00 AM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 7/7/2022 3:10:00 AM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 7/7/2022 3:10:00 AM |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 7/7/2022 3:10:00 AM |
| Surr: 4-Bromofluorobenzene | 95.8 | 70-130 | | %Rec | 1 | 7/7/2022 3:10:00 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | 1200 | 60 | | mg/Kg | 20 | 7/8/2022 9:59:47 PM |

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 | Estimated value |
| 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 interference |

**Analytical Report**
Lab Order **2207061**
Date Reported: **7/14/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-29 10'
**Project:** Julie 2 Battery
**Collection Date:** 6/29/2022 9:25:00 AM
**Lab ID:** 2207061-006 **Matrix:** SOIL **Received Date:** 7/2/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 7/9/2022 1:22:37 AM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/9/2022 1:22:37 AM |
| Surr: DNOP | 75.7 | 51.1-141 | | %Rec | 1 | 7/9/2022 1:22:37 AM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 7/7/2022 3:29:00 AM |
| Surr: BFB | 99.4 | 37.7-212 | | %Rec | 1 | 7/7/2022 3:29:00 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **RAA** |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 7/7/2022 3:29:00 AM |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 7/7/2022 3:29:00 AM |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 7/7/2022 3:29:00 AM |
| Xylenes, Total | ND | 0.093 | | mg/Kg | 1 | 7/7/2022 3:29:00 AM |
| Surr: 4-Bromofluorobenzene | 92.6 | 70-130 | | %Rec | 1 | 7/7/2022 3:29:00 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | 95 | 60 | | mg/Kg | 20 | 7/8/2022 10:12:07 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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

**Analytical Report**
Lab Order **2207061**
Date Reported: **7/14/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-29 16'
**Project:** Julie 2 Battery
**Collection Date:** 6/29/2022 9:30:00 AM
**Lab ID:** 2207061-007 **Matrix:** SOIL
**Received Date:** 7/2/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 7/9/2022 1:46:27 AM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 7/9/2022 1:46:27 AM |
| Surr: DNOP | 95.8 | 51.1-141 | | %Rec | 1 | 7/9/2022 1:46:27 AM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/6/2022 7:41:17 PM |
| Surr: BFB | 97.5 | 37.7-212 | | %Rec | 1 | 7/6/2022 7:41:17 PM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | 0.027 | 0.024 | | mg/Kg | 1 | 7/6/2022 7:41:17 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/6/2022 7:41:17 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/6/2022 7:41:17 PM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/6/2022 7:41:17 PM |
| Surr: 4-Bromofluorobenzene | 96.2 | 70-130 | | %Rec | 1 | 7/6/2022 7:41:17 PM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/8/2022 10:24:28 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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

**Analytical Report**
Lab Order **2207061**
Date Reported: **7/14/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-32 10'
**Project:** Julie 2 Battery
**Collection Date:** 6/29/2022 9:35:00 AM
**Lab ID:** 2207061-008 **Matrix:** SOIL
**Received Date:** 7/2/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 7/9/2022 2:10:20 AM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/9/2022 2:10:20 AM |
| Surr: DNOP | 92.1 | 51.1-141 | | %Rec | 1 | 7/9/2022 2:10:20 AM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/6/2022 8:51:59 PM |
| Surr: BFB | 96.2 | 37.7-212 | | %Rec | 1 | 7/6/2022 8:51:59 PM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/6/2022 8:51:59 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/6/2022 8:51:59 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/6/2022 8:51:59 PM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 7/6/2022 8:51:59 PM |
| Surr: 4-Bromofluorobenzene | 96.0 | 70-130 | | %Rec | 1 | 7/6/2022 8:51:59 PM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **NAI** |
| Chloride | 5400 | 150 | | mg/Kg | 50 | 7/11/2022 10:27:28 PM |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207061**
Date Reported: **7/14/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-32 16'
**Project:** Julie 2 Battery
**Collection Date:** 6/29/2022 9:40:00 AM
**Lab ID:** 2207061-009 **Matrix:** SOIL
**Received Date:** 7/2/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 7/9/2022 2:34:17 AM |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 7/9/2022 2:34:17 AM |
| Surr: DNOP | 98.0 | 51.1-141 | | %Rec | 1 | 7/9/2022 2:34:17 AM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/6/2022 10:02:33 PM |
| Surr: BFB | 99.1 | 37.7-212 | | %Rec | 1 | 7/6/2022 10:02:33 PM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/6/2022 10:02:33 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/6/2022 10:02:33 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/6/2022 10:02:33 PM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/6/2022 10:02:33 PM |
| Surr: 4-Bromofluorobenzene | 96.8 | 70-130 | | %Rec | 1 | 7/6/2022 10:02:33 PM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | 220 | 60 | | mg/Kg | 20 | 7/8/2022 11:13:51 PM |

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 | Estimated value |
| 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 interference |

**Analytical Report**
Lab Order **2207061**
Date Reported: **7/14/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** BES22-02 20'
**Project:** Julie 2 Battery
**Collection Date:** 6/29/2022 9:45:00 AM
**Lab ID:** 2207061-010 **Matrix:** SOIL
**Received Date:** 7/2/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 7/9/2022 2:58:01 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 7/9/2022 2:58:01 AM |
| Surr: DNOP | 116 | 51.1-141 | | %Rec | 1 | 7/9/2022 2:58:01 AM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 7/6/2022 10:25:58 PM |
| Surr: BFB | 95.1 | 37.7-212 | | %Rec | 1 | 7/6/2022 10:25:58 PM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/6/2022 10:25:58 PM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 7/6/2022 10:25:58 PM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 7/6/2022 10:25:58 PM |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 7/6/2022 10:25:58 PM |
| Surr: 4-Bromofluorobenzene | 95.7 | 70-130 | | %Rec | 1 | 7/6/2022 10:25:58 PM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | 160 | 60 | | mg/Kg | 20 | 7/8/2022 11:26:12 PM |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207061**
Date Reported: **7/14/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-01 2'
**Project:** Julie 2 Battery
**Collection Date:** 6/30/2022 9:00:00 AM
**Lab ID:** 2207061-011 **Matrix:** SOIL **Received Date:** 7/2/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 7/9/2022 3:21:51 AM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 7/9/2022 3:21:51 AM |
| Surr: DNOP | 74.2 | 51.1-141 | | %Rec | 1 | 7/9/2022 3:21:51 AM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/6/2022 10:49:28 PM |
| Surr: BFB | 96.9 | 37.7-212 | | %Rec | 1 | 7/6/2022 10:49:28 PM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/6/2022 10:49:28 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 7/6/2022 10:49:28 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 7/6/2022 10:49:28 PM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 7/6/2022 10:49:28 PM |
| Surr: 4-Bromofluorobenzene | 97.8 | 70-130 | | %Rec | 1 | 7/6/2022 10:49:28 PM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/8/2022 11:38:33 PM |

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

**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Value exceeds Maximum Contaminant Level. | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207061**
Date Reported: **7/14/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-08 2'
**Project:** Julie 2 Battery
**Collection Date:** 6/30/2022 9:05:00 AM
**Lab ID:** 2207061-012 **Matrix:** SOIL **Received Date:** 7/2/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 7/9/2022 3:45:46 AM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 7/9/2022 3:45:46 AM |
| Surr: DNOP | 107 | 51.1-141 | | %Rec | 1 | 7/9/2022 3:45:46 AM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/6/2022 11:12:55 PM |
| Surr: BFB | 97.3 | 37.7-212 | | %Rec | 1 | 7/6/2022 11:12:55 PM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/6/2022 11:12:55 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 7/6/2022 11:12:55 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 7/6/2022 11:12:55 PM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 7/6/2022 11:12:55 PM |
| Surr: 4-Bromofluorobenzene | 97.0 | 70-130 | | %Rec | 1 | 7/6/2022 11:12:55 PM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/8/2022 11:50:54 PM |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207061**
Date Reported: **7/14/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-09 2'
**Project:** Julie 2 Battery
**Collection Date:** 6/30/2022 9:10:00 AM
**Lab ID:** 2207061-013 **Matrix:** SOIL **Received Date:** 7/2/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 7/9/2022 4:09:34 AM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/9/2022 4:09:34 AM |
| Surr: DNOP | 93.1 | 51.1-141 | | %Rec | 1 | 7/9/2022 4:09:34 AM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 7/6/2022 11:36:22 PM |
| Surr: BFB | 95.3 | 37.7-212 | | %Rec | 1 | 7/6/2022 11:36:22 PM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/6/2022 11:36:22 PM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 7/6/2022 11:36:22 PM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 7/6/2022 11:36:22 PM |
| Xylenes, Total | ND | 0.096 | | mg/Kg | 1 | 7/6/2022 11:36:22 PM |
| Surr: 4-Bromofluorobenzene | 98.5 | 70-130 | | %Rec | 1 | 7/6/2022 11:36:22 PM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/9/2022 12:03:15 AM |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207061**
Date Reported: **7/14/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-20 2'
**Project:** Julie 2 Battery
**Collection Date:** 6/30/2022 9:20:00 AM
**Lab ID:** 2207061-015 **Matrix:** SOIL **Received Date:** 7/2/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 7/9/2022 4:57:07 AM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/9/2022 4:57:07 AM |
| Surr: DNOP | 97.4 | 51.1-141 | | %Rec | 1 | 7/9/2022 4:57:07 AM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/6/2022 11:59:45 PM |
| Surr: BFB | 94.9 | 37.7-212 | | %Rec | 1 | 7/6/2022 11:59:45 PM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/6/2022 11:59:45 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/6/2022 11:59:45 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/6/2022 11:59:45 PM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 7/6/2022 11:59:45 PM |
| Surr: 4-Bromofluorobenzene | 96.7 | 70-130 | | %Rec | 1 | 7/6/2022 11:59:45 PM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **NAI** |
| Chloride | 3300 | 300 | | mg/Kg | 100 | 7/11/2022 10:39:52 PM |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207061**
Date Reported: **7/14/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-20 4'
**Project:** Julie 2 Battery
**Collection Date:** 6/30/2022 9:25:00 AM
**Lab ID:** 2207061-016 **Matrix:** SOIL
**Received Date:** 7/2/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 7/9/2022 5:20:53 AM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/9/2022 5:20:53 AM |
| Surr: DNOP | 124 | 51.1-141 | | %Rec | 1 | 7/9/2022 5:20:53 AM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/7/2022 12:23:07 AM |
| Surr: BFB | 96.4 | 37.7-212 | | %Rec | 1 | 7/7/2022 12:23:07 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/7/2022 12:23:07 AM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/7/2022 12:23:07 AM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/7/2022 12:23:07 AM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/7/2022 12:23:07 AM |
| Surr: 4-Bromofluorobenzene | 97.7 | 70-130 | | %Rec | 1 | 7/7/2022 12:23:07 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **NAI** |
| Chloride | 4800 | 300 | | mg/Kg | 100 | 7/11/2022 10:52:17 PM |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207061**
Date Reported: **7/14/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-24 2'
**Project:** Julie 2 Battery
**Collection Date:** 6/30/2022 9:30:00 AM
**Lab ID:** 2207061-017 **Matrix:** SOIL
**Received Date:** 7/2/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 7/9/2022 5:44:40 AM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/9/2022 5:44:40 AM |
| Surr: DNOP | 78.8 | 51.1-141 | | %Rec | 1 | 7/9/2022 5:44:40 AM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/7/2022 12:46:32 AM |
| Surr: BFB | 95.5 | 37.7-212 | | %Rec | 1 | 7/7/2022 12:46:32 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/7/2022 12:46:32 AM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/7/2022 12:46:32 AM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/7/2022 12:46:32 AM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/7/2022 12:46:32 AM |
| Surr: 4-Bromofluorobenzene | 98.0 | 70-130 | | %Rec | 1 | 7/7/2022 12:46:32 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | 130 | 60 | | mg/Kg | 20 | 7/9/2022 12:40:17 AM |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207061**
Date Reported: **7/14/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-24 4'
**Project:** Julie 2 Battery
**Collection Date:** 6/30/2022 9:35:00 AM
**Lab ID:** 2207061-018 **Matrix:** SOIL
**Received Date:** 7/2/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 7/9/2022 6:08:29 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 7/9/2022 6:08:29 AM |
| Surr: DNOP | 77.0 | 51.1-141 | | %Rec | 1 | 7/9/2022 6:08:29 AM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/7/2022 1:33:35 AM |
| Surr: BFB | 96.3 | 37.7-212 | | %Rec | 1 | 7/7/2022 1:33:35 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/7/2022 1:33:35 AM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/7/2022 1:33:35 AM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/7/2022 1:33:35 AM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/7/2022 1:33:35 AM |
| Surr: 4-Bromofluorobenzene | 97.6 | 70-130 | | %Rec | 1 | 7/7/2022 1:33:35 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | 370 | 60 | | mg/Kg | 20 | 7/9/2022 12:52:38 AM |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207061**
Date Reported: **7/14/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-34 2'
**Project:** Julie 2 Battery
**Collection Date:** 6/30/2022 9:40:00 AM
**Lab ID:** 2207061-019 **Matrix:** SOIL **Received Date:** 7/2/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 7/9/2022 6:32:17 AM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/9/2022 6:32:17 AM |
| Surr: DNOP | 101 | 51.1-141 | | %Rec | 1 | 7/9/2022 6:32:17 AM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/7/2022 1:57:00 AM |
| Surr: BFB | 92.0 | 37.7-212 | | %Rec | 1 | 7/7/2022 1:57:00 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/7/2022 1:57:00 AM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 7/7/2022 1:57:00 AM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 7/7/2022 1:57:00 AM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 7/7/2022 1:57:00 AM |
| Surr: 4-Bromofluorobenzene | 96.1 | 70-130 | | %Rec | 1 | 7/7/2022 1:57:00 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/9/2022 1:04:58 AM |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207061**
Date Reported: **7/14/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-34 4'
**Project:** Julie 2 Battery
**Collection Date:** 6/30/2022 9:45:00 AM
**Lab ID:** 2207061-020 **Matrix:** SOIL
**Received Date:** 7/2/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 7/9/2022 6:56:04 AM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/9/2022 6:56:04 AM |
| Surr: DNOP | 72.7 | 51.1-141 | | %Rec | 1 | 7/9/2022 6:56:04 AM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/7/2022 2:20:26 AM |
| Surr: BFB | 93.6 | 37.7-212 | | %Rec | 1 | 7/7/2022 2:20:26 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/7/2022 2:20:26 AM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/7/2022 2:20:26 AM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/7/2022 2:20:26 AM |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 7/7/2022 2:20:26 AM |
| Surr: 4-Bromofluorobenzene | 97.0 | 70-130 | | %Rec | 1 | 7/7/2022 2:20:26 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | 1100 | 61 | | mg/Kg | 20 | 7/9/2022 1:42:02 AM |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207061**
Date Reported: **7/14/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-35 2'
**Project:** Julie 2 Battery
**Collection Date:** 6/30/2022 9:50:00 AM
**Lab ID:** 2207061-021 **Matrix:** SOIL
**Received Date:** 7/2/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 7/11/2022 3:44:08 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 7/11/2022 3:44:08 PM |
| Surr: DNOP | 93.7 | 51.1-141 | | %Rec | 1 | 7/11/2022 3:44:08 PM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/7/2022 2:43:49 AM |
| Surr: BFB | 96.7 | 37.7-212 | | %Rec | 1 | 7/7/2022 2:43:49 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/7/2022 2:43:49 AM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/7/2022 2:43:49 AM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/7/2022 2:43:49 AM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 7/7/2022 2:43:49 AM |
| Surr: 4-Bromofluorobenzene | 96.5 | 70-130 | | %Rec | 1 | 7/7/2022 2:43:49 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/10/2022 11:02:13 AM |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207061**
Date Reported: **7/14/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-35 4'
**Project:** Julie 2 Battery
**Collection Date:** 6/30/2022 9:55:00 AM
**Lab ID:** 2207061-022 **Matrix:** SOIL **Received Date:** 7/2/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 7/11/2022 4:28:30 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 7/11/2022 4:28:30 PM |
| Surr: DNOP | 79.3 | 51.1-141 | | %Rec | 1 | 7/11/2022 4:28:30 PM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/7/2022 3:07:19 AM |
| Surr: BFB | 94.0 | 37.7-212 | | %Rec | 1 | 7/7/2022 3:07:19 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/7/2022 3:07:19 AM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 7/7/2022 3:07:19 AM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 7/7/2022 3:07:19 AM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 7/7/2022 3:07:19 AM |
| Surr: 4-Bromofluorobenzene | 97.4 | 70-130 | | %Rec | 1 | 7/7/2022 3:07:19 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** |
| Chloride | 64 | 60 | | mg/Kg | 20 | 7/10/2022 11:14:37 AM |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207061**
Date Reported: **7/14/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-36 2'
**Project:** Julie 2 Battery
**Collection Date:** 6/30/2022 10:00:00 AM
**Lab ID:** 2207061-023 **Matrix:** SOIL **Received Date:** 7/2/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 7/11/2022 4:42:45 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 7/11/2022 4:42:45 PM |
| Surr: DNOP | 75.1 | 51.1-141 | | %Rec | 1 | 7/11/2022 4:42:45 PM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/7/2022 3:30:53 AM |
| Surr: BFB | 97.5 | 37.7-212 | | %Rec | 1 | 7/7/2022 3:30:53 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/7/2022 3:30:53 AM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 7/7/2022 3:30:53 AM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 7/7/2022 3:30:53 AM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 7/7/2022 3:30:53 AM |
| Surr: 4-Bromofluorobenzene | 96.5 | 70-130 | | %Rec | 1 | 7/7/2022 3:30:53 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/10/2022 11:51:50 AM |

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 | Estimated value |
| 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 interference |

**Analytical Report**
Lab Order **2207061**
Date Reported: **7/14/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** WES22-36 4'
**Project:** Julie 2 Battery
**Collection Date:** 6/30/2022 10:05:00 AM
**Lab ID:** 2207061-024 **Matrix:** SOIL
**Received Date:** 7/2/2022 9:35:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **ED** |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 7/11/2022 4:57:09 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 7/11/2022 4:57:09 PM |
| Surr: DNOP | 69.7 | 51.1-141 | | %Rec | 1 | 7/11/2022 4:57:09 PM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **NSB** |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/7/2022 3:54:21 AM |
| Surr: BFB | 94.4 | 37.7-212 | | %Rec | 1 | 7/7/2022 3:54:21 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **NSB** |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/7/2022 3:54:21 AM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/7/2022 3:54:21 AM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/7/2022 3:54:21 AM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/7/2022 3:54:21 AM |
| Surr: 4-Bromofluorobenzene | 95.9 | 70-130 | | %Rec | 1 | 7/7/2022 3:54:21 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **CAS** |
| Chloride | 310 | 60 | | mg/Kg | 20 | 7/10/2022 12:04:14 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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2207061**

***14-Jul-22***

**Client:** Vertex Resources Services, Inc.

**Project:** Julie 2 Battery

| Sample ID: **MB-68654** | SampType: **mblk** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68654** | RunNo: **89355** |
| Prep Date: **7/8/2022** | Analysis Date: **7/10/2022** | SeqNo: **3178511** Units: **mg/Kg** |

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

| Sample ID: **LCS-68654** | SampType: **lcs** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68654** | RunNo: **89355** |
| Prep Date: **7/8/2022** | Analysis Date: **7/10/2022** | SeqNo: **3178512** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 14 | 1.5 | 15.00 | 0 | 91.2 | 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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2207061**

***14-Jul-22***

**Client:** Vertex Resources Services, Inc.

**Project:** Julie 2 Battery

| Sample ID: **MB-68586** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68586** | RunNo: **89260** |
| Prep Date: **7/6/2022** | Analysis Date: **7/8/2022** | SeqNo: **3178997** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | ND | 15 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 13 | | 10.00 | | 128 | 51.1 | 141 | | | |

| Sample ID: **LCS-68586** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68586** | RunNo: **89260** |
| Prep Date: **7/6/2022** | Analysis Date: **7/8/2022** | SeqNo: **3178998** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 59 | 15 | 50.00 | 0 | 118 | 64.4 | 127 | | | |
| Surr: DNOP | 6.4 | | 5.000 | | 128 | 51.1 | 141 | | | |

| Sample ID: **MB-68594** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68594** | RunNo: **89368** |
| Prep Date: **7/6/2022** | Analysis Date: **7/11/2022** | SeqNo: **3180208** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | ND | 15 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 12 | | 10.00 | | 120 | 51.1 | 141 | | | |

| Sample ID: **LCS-68594** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68594** | RunNo: **89368** |
| Prep Date: **7/6/2022** | Analysis Date: **7/11/2022** | SeqNo: **3180209** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 54 | 15 | 50.00 | 0 | 109 | 64.4 | 127 | | | |
| Surr: DNOP | 5.9 | | 5.000 | | 118 | 51.1 | 141 | | | |

| Sample ID: **2207061-021AMS** | SampType: **MS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **WES22-35 2'** | Batch ID: **68594** | RunNo: **89368** |
| Prep Date: **7/6/2022** | Analysis Date: **7/11/2022** | SeqNo: **3180211** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 43 | 14 | 47.76 | 0 | 89.2 | 36.1 | 154 | | | |
| Surr: DNOP | 3.7 | | 4.776 | | 76.6 | 51.1 | 141 | | | |

**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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2207061**

***14-Jul-22***

**Client:** Vertex Resources Services, Inc.

**Project:** Julie 2 Battery

| Sample ID: **2207061-021AMSD** | SampType: **MSD** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **WES22-35 2'** | Batch ID: **68594** | RunNo: **89368** |
| Prep Date: **7/6/2022** | Analysis Date: **7/11/2022** | SeqNo: **3180212** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 37 | 15 | 49.07 | 0 | 74.9 | 36.1 | 154 | 14.8 | 33.9 | |
| Surr: DNOP | 2.7 | | 4.907 | | 55.0 | 51.1 | 141 | 0 | 0 | |

| Sample ID: **MB-68675** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68675** | RunNo: **89401** |
| Prep Date: **7/11/2022** | Analysis Date: **7/12/2022** | SeqNo: **3180414** Units: **%Rec** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: DNOP | 9.6 | | 10.00 | | 96.2 | 51.1 | 141 | | | |

| Sample ID: **LCS-68675** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68675** | RunNo: **89401** |
| Prep Date: **7/11/2022** | Analysis Date: **7/12/2022** | SeqNo: **3180415** Units: **%Rec** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Surr: DNOP | 4.8 | | 5.000 | | 96.3 | 51.1 | 141 | | | |

**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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2207061**

***14-Jul-22***

**Client:** Vertex Resources Services, Inc.

**Project:** Julie 2 Battery

| Sample ID: **mb-68555** | SampType: **MBLK** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68555** | RunNo: **89271** |
| Prep Date: **7/5/2022** | Analysis Date: **7/6/2022** | SeqNo: **3174484** 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 | | 95.5 | 37.7 | 212 | | | |

| Sample ID: **lcs-68555** | SampType: **LCS** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68555** | RunNo: **89271** |
| Prep Date: **7/5/2022** | Analysis Date: **7/6/2022** | SeqNo: **3174485** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 28 | 5.0 | 25.00 | 0 | 114 | 72.3 | 137 | | | |
| Surr: BFB | 2200 | | 1000 | | 215 | 37.7 | 212 | | | S |

| Sample ID: **2207061-007ams** | SampType: **MS** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **WES22-29 16'** | Batch ID: **68555** | RunNo: **89271** |
| Prep Date: **7/5/2022** | Analysis Date: **7/6/2022** | SeqNo: **3174487** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 28 | 5.0 | 24.90 | 0 | 112 | 70 | 130 | | | |
| Surr: BFB | 2200 | | 996.0 | | 221 | 37.7 | 212 | | | S |

| Sample ID: **2207061-007amsd** | SampType: **MSD** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **WES22-29 16'** | Batch ID: **68555** | RunNo: **89271** |
| Prep Date: **7/5/2022** | Analysis Date: **7/6/2022** | SeqNo: **3174488** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 29 | 4.8 | 23.85 | 0 | 121 | 70 | 130 | 3.21 | 20 | |
| Surr: BFB | 2100 | | 954.2 | | 223 | 37.7 | 212 | 0 | 0 | S |

| Sample ID: **lcs-68550** | SampType: **LCS** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68550** | RunNo: **89287** |
| Prep Date: **7/5/2022** | Analysis Date: **7/6/2022** | SeqNo: **3175349** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 25 | 5.0 | 25.00 | 0 | 102 | 72.3 | 137 | | | |
| Surr: BFB | 2100 | | 1000 | | 210 | 37.7 | 212 | | | |

| Sample ID: **mb-68550** | SampType: **MBLK** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68550** | RunNo: **89287** |
| Prep Date: **7/5/2022** | Analysis Date: **7/6/2022** | SeqNo: **3175350** Units: **mg/Kg** |

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

**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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2207061**

***14-Jul-22***

**Client:** Vertex Resources Services, Inc.

**Project:** Julie 2 Battery

| Sample ID: **mb-68550** | SampType: **MBLK** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68550** | RunNo: **89287** |
| Prep Date: **7/5/2022** | Analysis Date: **7/6/2022** | SeqNo: **3175350** 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 | 880 | | 1000 | | 88.1 | 37.7 | 212 | | | |

**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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2207061**

***14-Jul-22***

**Client:** Vertex Resources Services, Inc.

**Project:** Julie 2 Battery

| Sample ID: **mb-68555** | SampType: **MBLK** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68555** | RunNo: **89271** |
| Prep Date: **7/5/2022** | Analysis Date: **7/6/2022** | SeqNo: **3174523** 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 | 0.96 | | 1.000 | | 95.7 | 70 | 130 | | | |

| Sample ID: **LCS-68555** | SampType: **LCS** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68555** | RunNo: **89271** |
| Prep Date: **7/5/2022** | Analysis Date: **7/6/2022** | SeqNo: **3174524** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.94 | 0.025 | 1.000 | 0 | 94.0 | 80 | 120 | | | |
| Toluene | 0.94 | 0.050 | 1.000 | 0 | 93.7 | 80 | 120 | | | |
| Ethylbenzene | 0.95 | 0.050 | 1.000 | 0 | 95.3 | 80 | 120 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 95.1 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.97 | | 1.000 | | 96.6 | 70 | 130 | | | |

| Sample ID: **2207061-008ams** | SampType: **MS** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **WES22-32 10'** | Batch ID: **68555** | RunNo: **89271** |
| Prep Date: **7/5/2022** | Analysis Date: **7/6/2022** | SeqNo: **3174527** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.74 | 0.024 | 0.9775 | 0.01502 | 74.4 | 68.8 | 120 | | | |
| Toluene | 0.77 | 0.049 | 0.9775 | 0 | 78.4 | 73.6 | 124 | | | |
| Ethylbenzene | 0.76 | 0.049 | 0.9775 | 0 | 78.1 | 72.7 | 129 | | | |
| Xylenes, Total | 2.3 | 0.098 | 2.933 | 0 | 78.1 | 75.7 | 126 | | | |
| Surr: 4-Bromofluorobenzene | 0.97 | | 0.9775 | | 99.0 | 70 | 130 | | | |

| Sample ID: **2207061-008amsd** | SampType: **MSD** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **WES22-32 10'** | Batch ID: **68555** | RunNo: **89271** |
| Prep Date: **7/5/2022** | Analysis Date: **7/6/2022** | SeqNo: **3174528** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 1.1 | 0.025 | 0.9823 | 0.01502 | 108 | 68.8 | 120 | 36.5 | 20 | R |
| Toluene | 1.1 | 0.049 | 0.9823 | 0 | 115 | 73.6 | 124 | 38.0 | 20 | R |
| Ethylbenzene | 1.1 | 0.049 | 0.9823 | 0 | 117 | 72.7 | 129 | 40.0 | 20 | R |
| Xylenes, Total | 3.5 | 0.098 | 2.947 | 0 | 117 | 75.7 | 126 | 40.6 | 20 | R |
| Surr: 4-Bromofluorobenzene | 0.98 | | 0.9823 | | 100 | 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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2207061**

***14-Jul-22***

**Client:** Vertex Resources Services, Inc.

**Project:** Julie 2 Battery

| Sample ID: **lcs-68550** | SampType: **LCS** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68550** | RunNo: **89287** |
| Prep Date: **7/5/2022** | Analysis Date: **7/6/2022** | SeqNo: **3175424** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.92 | 0.025 | 1.000 | 0 | 91.8 | 80 | 120 | | | |
| Toluene | 0.93 | 0.050 | 1.000 | 0 | 93.2 | 80 | 120 | | | |
| Ethylbenzene | 0.93 | 0.050 | 1.000 | 0 | 93.4 | 80 | 120 | | | |
| Xylenes, Total | 2.8 | 0.10 | 3.000 | 0 | 93.1 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.87 | | 1.000 | | 87.2 | 70 | 130 | | | |

| Sample ID: **mb-68550** | SampType: **MBLK** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68550** | RunNo: **89287** |
| Prep Date: **7/5/2022** | Analysis Date: **7/6/2022** | SeqNo: **3175425** 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 | 0.83 | | 1.000 | | 82.6 | 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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| 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: www.hallenvironmental.com*

# Sample Log-In Check List

Client Name: **Vertex Resources Services, Inc.** Work Order Number: **2207061** RcptNo: **1**

Received By: **Andy Freeman** **7/2/2022 9:35:00 AM**

Completed By: **Cheyenne Cason** **7/5/2022 7:23:18 AM**

Reviewed By: JGR 7/5/22

## 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: JGR 7/5/22

## 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 | 3.6 | Good | Not Present | | | |
| 2 | 4.5 | Good | Not Present | | | |

# Chain-of-Custody Record

Client: EOG / Vertex

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: Julie #2 Battery

Project #: 22E-00716-011

Project Manager: Monica Peppin

Sampler: Chance Dixon

On Ice: ☑ Yes ☐ No

# of Coolers: 2

Cooler Temp (including CF): 3.7-0.1=3.6 (°C) 4.6-0.1=4.5

**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. 2207061 | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/29 | 9:00 | Soil | WESS22-15 5' | 4 oz | Ice | 001 | ✓ | ✓ | | | | | ✓ | | | |
| | 9:05 | | WESS22-15 10' | | | 002 | | | | | | | | | | |
| | 9:10 | | WESS22-15 15' | | | 003 | | | | | | | | | | |
| | 9:15 | | WESS22-28 10' | | | 004 | | | | | | | | | | |
| | 9:20 | | WESS22-28 16' | | | 005 | | | | | | | | | | |
| | 9:25 | | WESS22-29 10' | | | 006 | | | | | | | | | | |
| | 9:30 | | WESS22-29 16' | | | 007 | | | | | | | | | | |
| | 9:35 | | WESS22-32 10' | | | 008 | | | | | | | | | | |
| | 9:40 | | WESS22-32 16' | | | 009 | | | | | | | | | | |
| | 9:45 | | BESS22-02 20' | | | 010 | | | | | | | | | | |

| Date | Time | Relinquished by: | Received by: | Via: | Date | Time |
|---|---|---|---|---|---|---|
| | | | | | 7/1/22 | 900 |
| 7/1/22 | 1900 | | | | 7/2/22 | 0935 |

Remarks: CC: Chance Dixon
Direct Bill EOG

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.

# Chain-of-Custody Record

Client: EOG / Vertex

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: Juliet #2 Battery

Project #: 22E-00716-011

Project Manager: Monica Peppin

Sampler: Chance Dixon

On Ice: ☑ Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 4.6 - 0.1 = 4.5 (°C) 3.7 - 0.1 = 3.6

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. 2207061 | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/30 | 9:00 | Soil | WES22-01 2' | 4oz | Ice | 011 | ✓ | ✓ | | | | | ✓ | | | |
| | 9:05 | | WES22-08 2' | | | 012 | | | | | | | | | | |
| | 9:10 | | WES22-09 2' | | | 013 | | | | | | | | | | |
| | 9:15 | | WES22-10 2' | | | 014 | | | | | | | | | | |
| | 9:20 | | WES22-20 2' | | | 015 | | | | | | | | | | |
| | 9:25 | | WES22-20 4' | | | 016 | | | | | | | | | | |
| | 9:30 | | WES22-24 2' | | | 017 | | | | | | | | | | |
| | 9:35 | | WES22-24 4' | | | 018 | | | | | | | | | | |
| | 9:40 | | WES22-34 2' | | | 019 | | | | | | | | | | |
| | 9:45 | | WES22-34 4' | | | 020 | | | | | | | | | | |
| | 9:50 | | WES22-35 2' | | | 021 | | | | | | | | | | |
| | 9:55 | | WES22-35 4' | | | 022 | | | | | | | | | | |

| Date: | Time: | Relinquished by: | Received by: | Via: | Date | Time |
|---|---|---|---|---|---|---|
| | | | | | 7/1/22 | 900 |
| 7/1/22 | 1900 | | | | 7/2/22 | 0935 |

Remarks: CC: Chance Dixon
Direct Bill EOG

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.

# Chain-of-Custody Record

Client: EOG / Vertex

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: Juliet #2 Battery

Project #: 22E-00716-011

Project Manager: Monica Peppin

Sampler: Chance Dixon

On Ice: ☒ Yes ☐ No

# of Coolers: 2 4.6 - 0.1 = 4.5

Cooler Temp(including CF): 3.7 - 0.1 = 3.6 (°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. 2207061 | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/30 | 10:00 | Soil | WESS22-36 2' | 4 oz | ICE | 023 | ✓ | ✓ | | | | | ✓ | | | |
| 6/30 | 10:05 | Soil | WESS22-36 4' | 4 oz | ICE | 024 | ✓ | ✓ | | | | | ✓ | | | |

| Date: | Time: | Relinquished by: | Received by: | Via: | Date | Time |
|---|---|---|---|---|---|---|
| | | | | | 7/1/22 | 900 |
| Date: 7/1/22 | Time: 1900 | Relinquished by: | Received by: | Via: | Date: 7/2/22 | Time: 0935 |

Remarks: CC: Chance Dixon
Direct Bill EOG

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: www.hallenvironmental.com*

July 18, 2022

Monica Peppin

Vertex Resources Services, Inc.
3101 Boyd Drive
Carlsbad, NM 88220
TEL: (505) 506-0040
FAX:

RE: Julie 2 Battery OrderNo.: 2207186

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 7 sample(s) on 7/7/2022 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 **2207186**
Date Reported: **7/18/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** BES22-01 4'
**Project:** Julie 2 Battery
**Collection Date:** 7/1/2022 10:00:00 AM
**Lab ID:** 2207186-001 **Matrix:** SOIL
**Received Date:** 7/7/2022 7:45:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **SB** |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 7/8/2022 7:12:48 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 7/8/2022 7:12:48 PM |
| Surr: DNOP | 87.0 | 51.1-141 | | %Rec | 1 | 7/8/2022 7:12:48 PM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/8/2022 10:48:00 PM |
| Surr: BFB | 90.4 | 37.7-212 | | %Rec | 1 | 7/8/2022 10:48:00 PM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **RAA** |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/8/2022 10:48:00 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/8/2022 10:48:00 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/8/2022 10:48:00 PM |
| Xylenes, Total | ND | 0.098 | | mg/Kg | 1 | 7/8/2022 10:48:00 PM |
| Surr: 4-Bromofluorobenzene | 82.9 | 70-130 | | %Rec | 1 | 7/8/2022 10:48:00 PM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | 340 | 60 | | mg/Kg | 20 | 7/13/2022 2:56:48 PM |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207186**
Date Reported: **7/18/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** BES22-03 4'
**Project:** Julie 2 Battery
**Collection Date:** 7/1/2022 10:05:00 AM
**Lab ID:** 2207186-002 **Matrix:** SOIL
**Received Date:** 7/7/2022 7:45:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **SB** |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 7/8/2022 7:27:04 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 7/8/2022 7:27:04 PM |
| Surr: DNOP | 81.0 | 51.1-141 | | %Rec | 1 | 7/8/2022 7:27:04 PM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/8/2022 11:08:00 PM |
| Surr: BFB | 87.2 | 37.7-212 | | %Rec | 1 | 7/8/2022 11:08:00 PM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **RAA** |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/8/2022 11:08:00 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/8/2022 11:08:00 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/8/2022 11:08:00 PM |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 7/8/2022 11:08:00 PM |
| Surr: 4-Bromofluorobenzene | 83.0 | 70-130 | | %Rec | 1 | 7/8/2022 11:08:00 PM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | 340 | 60 | | mg/Kg | 20 | 7/13/2022 3:34:01 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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

**Analytical Report**
Lab Order **2207186**
Date Reported: **7/18/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** BES22-04 6'
**Project:** Julie 2 Battery
**Collection Date:** 7/1/2022 10:10:00 AM
**Lab ID:** 2207186-003 **Matrix:** SOIL **Received Date:** 7/7/2022 7:45:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **SB** |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 7/8/2022 7:41:26 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 7/8/2022 7:41:26 PM |
| Surr: DNOP | 86.1 | 51.1-141 | | %Rec | 1 | 7/8/2022 7:41:26 PM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/8/2022 11:27:00 PM |
| Surr: BFB | 92.3 | 37.7-212 | | %Rec | 1 | 7/8/2022 11:27:00 PM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **RAA** |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/8/2022 11:27:00 PM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/8/2022 11:27:00 PM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/8/2022 11:27:00 PM |
| Xylenes, Total | ND | 0.099 | | mg/Kg | 1 | 7/8/2022 11:27:00 PM |
| Surr: 4-Bromofluorobenzene | 85.0 | 70-130 | | %Rec | 1 | 7/8/2022 11:27:00 PM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | 74 | 60 | | mg/Kg | 20 | 7/13/2022 3:46:25 PM |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207186**
Date Reported: **7/18/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** BES22-05 6'
**Project:** Julie 2 Battery
**Collection Date:** 7/1/2022 10:15:00 AM
**Lab ID:** 2207186-004 **Matrix:** SOIL **Received Date:** 7/7/2022 7:45:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **SB** |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 7/8/2022 7:55:41 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | | mg/Kg | 1 | 7/8/2022 7:55:41 PM |
| Surr: DNOP | 83.9 | 51.1-141 | | %Rec | 1 | 7/8/2022 7:55:41 PM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 7/9/2022 12:07:00 AM |
| Surr: BFB | 89.0 | 37.7-212 | | %Rec | 1 | 7/9/2022 12:07:00 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **RAA** |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/9/2022 12:07:00 AM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 7/9/2022 12:07:00 AM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 7/9/2022 12:07:00 AM |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 7/9/2022 12:07:00 AM |
| Surr: 4-Bromofluorobenzene | 83.9 | 70-130 | | %Rec | 1 | 7/9/2022 12:07:00 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | 84 | 60 | | mg/Kg | 20 | 7/13/2022 4:23:39 PM |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207186**
Date Reported: **7/18/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** BES22-06 6'
**Project:** Julie 2 Battery
**Collection Date:** 7/1/2022 10:20:00 AM
**Lab ID:** 2207186-005 **Matrix:** SOIL **Received Date:** 7/7/2022 7:45:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **SB** |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 7/8/2022 8:09:43 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | | mg/Kg | 1 | 7/8/2022 8:09:43 PM |
| Surr: DNOP | 101 | 51.1-141 | | %Rec | 1 | 7/8/2022 8:09:43 PM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 7/9/2022 12:27:00 AM |
| Surr: BFB | 89.8 | 37.7-212 | | %Rec | 1 | 7/9/2022 12:27:00 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **RAA** |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 7/9/2022 12:27:00 AM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 7/9/2022 12:27:00 AM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 7/9/2022 12:27:00 AM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 7/9/2022 12:27:00 AM |
| Surr: 4-Bromofluorobenzene | 83.0 | 70-130 | | %Rec | 1 | 7/9/2022 12:27:00 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/13/2022 4:36:04 PM |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207186**
Date Reported: **7/18/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** BES22-07 6'
**Project:** Julie 2 Battery
**Collection Date:** 7/1/2022 10:25:00 AM
**Lab ID:** 2207186-006 **Matrix:** SOIL **Received Date:** 7/7/2022 7:45:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **SB** |
| Diesel Range Organics (DRO) | ND | 14 | | mg/Kg | 1 | 7/8/2022 8:23:59 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | | mg/Kg | 1 | 7/8/2022 8:23:59 PM |
| Surr: DNOP | 75.9 | 51.1-141 | | %Rec | 1 | 7/8/2022 8:23:59 PM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 4.9 | | mg/Kg | 1 | 7/9/2022 12:47:00 AM |
| Surr: BFB | 87.5 | 37.7-212 | | %Rec | 1 | 7/9/2022 12:47:00 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **RAA** |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/9/2022 12:47:00 AM |
| Toluene | ND | 0.049 | | mg/Kg | 1 | 7/9/2022 12:47:00 AM |
| Ethylbenzene | ND | 0.049 | | mg/Kg | 1 | 7/9/2022 12:47:00 AM |
| Xylenes, Total | ND | 0.097 | | mg/Kg | 1 | 7/9/2022 12:47:00 AM |
| Surr: 4-Bromofluorobenzene | 84.3 | 70-130 | | %Rec | 1 | 7/9/2022 12:47:00 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/13/2022 5:38:05 PM |

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 | Estimated value |
| 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 interference | | |

**Analytical Report**
Lab Order **2207186**
Date Reported: **7/18/2022**

# Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Vertex Resources Services, Inc.
**Client Sample ID:** BES22-08 6'
**Project:** Julie 2 Battery
**Collection Date:** 7/1/2022 10:30:00 AM
**Lab ID:** 2207186-007 **Matrix:** SOIL **Received Date:** 7/7/2022 7:45:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** | | | | | | Analyst: **SB** |
| Diesel Range Organics (DRO) | ND | 15 | | mg/Kg | 1 | 7/8/2022 8:38:02 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | | mg/Kg | 1 | 7/8/2022 8:38:02 PM |
| Surr: DNOP | 95.9 | 51.1-141 | | %Rec | 1 | 7/8/2022 8:38:02 PM |
| **EPA METHOD 8015D: GASOLINE RANGE** | | | | | | Analyst: **RAA** |
| Gasoline Range Organics (GRO) | ND | 4.8 | | mg/Kg | 1 | 7/9/2022 1:06:00 AM |
| Surr: BFB | 89.4 | 37.7-212 | | %Rec | 1 | 7/9/2022 1:06:00 AM |
| **EPA METHOD 8021B: VOLATILES** | | | | | | Analyst: **RAA** |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 7/9/2022 1:06:00 AM |
| Toluene | ND | 0.048 | | mg/Kg | 1 | 7/9/2022 1:06:00 AM |
| Ethylbenzene | ND | 0.048 | | mg/Kg | 1 | 7/9/2022 1:06:00 AM |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 7/9/2022 1:06:00 AM |
| Surr: 4-Bromofluorobenzene | 82.5 | 70-130 | | %Rec | 1 | 7/9/2022 1:06:00 AM |
| **EPA METHOD 300.0: ANIONS** | | | | | | Analyst: **JTT** |
| Chloride | ND | 60 | | mg/Kg | 20 | 7/13/2022 5:50:29 PM |

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 | Estimated value |
| 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 interference | | |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2207186**

***18-Jul-22***

**Client:** Vertex Resources Services, Inc.

**Project:** Julie 2 Battery

| Sample ID: **MB-68732** | SampType: **mblk** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68732** | RunNo: **89473** |
| Prep Date: **7/12/2022** | Analysis Date: **7/13/2022** | SeqNo: **3183568** Units: **mg/Kg** |

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

| Sample ID: **LCS-68732** | SampType: **lcs** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68732** | RunNo: **89473** |
| Prep Date: **7/12/2022** | Analysis Date: **7/13/2022** | SeqNo: **3183569** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 14 | 1.5 | 15.00 | 0 | 92.6 | 90 | 110 | | | |

| Sample ID: **MB-68737** | SampType: **mblk** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68737** | RunNo: **89473** |
| Prep Date: **7/12/2022** | Analysis Date: **7/13/2022** | SeqNo: **3183598** Units: **mg/Kg** |

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

| Sample ID: **LCS-68737** | SampType: **lcs** | TestCode: **EPA Method 300.0: Anions** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68737** | RunNo: **89473** |
| Prep Date: **7/12/2022** | Analysis Date: **7/13/2022** | SeqNo: **3183599** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 14 | 1.5 | 15.00 | 0 | 93.0 | 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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2207186**

***18-Jul-22***

**Client:** Vertex Resources Services, Inc.

**Project:** Julie 2 Battery

| Sample ID: **MB-68628** | SampType: **MBLK** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68628** | RunNo: **89385** |
| Prep Date: **7/7/2022** | Analysis Date: **7/8/2022** | SeqNo: **3179983** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | ND | 15 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.8 | | 10.00 | | 98.3 | 51.1 | 141 | | | |

| Sample ID: **LCS-68628** | SampType: **LCS** | TestCode: **EPA Method 8015M/D: Diesel Range Organics** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68628** | RunNo: **89385** |
| Prep Date: **7/7/2022** | Analysis Date: **7/8/2022** | SeqNo: **3179985** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Diesel Range Organics (DRO) | 45 | 15 | 50.00 | 0 | 89.9 | 64.4 | 127 | | | |
| Surr: DNOP | 4.8 | | 5.000 | | 96.4 | 51.1 | 141 | | | |

**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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2207186**

***18-Jul-22***

**Client:** Vertex Resources Services, Inc.

**Project:** Julie 2 Battery

| Sample ID: **lcs-68623** | SampType: **LCS** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68623** | RunNo: **89348** |
| Prep Date: **7/7/2022** | Analysis Date: **7/8/2022** | SeqNo: **3178144** Units: **mg/Kg** |

| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO) | 25 | 5.0 | 25.00 | 0 | 99.0 | 72.3 | 137 | | | |
| Surr: BFB | 2000 | | 1000 | | 199 | 37.7 | 212 | | | |

| Sample ID: **mb-68623** | SampType: **MBLK** | TestCode: **EPA Method 8015D: Gasoline Range** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68623** | RunNo: **89348** |
| Prep Date: **7/7/2022** | Analysis Date: **7/8/2022** | SeqNo: **3178145** 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 | 910 | | 1000 | | 91.1 | 37.7 | 212 | | | |

**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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| J | Analyte detected below quantitation limits |
| P | Sample pH Not In Range |
| RL | Reporting Limit |

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2207186**

***18-Jul-22***

**Client:** Vertex Resources Services, Inc.

**Project:** Julie 2 Battery

| Sample ID: **lcs-68623** | SampType: **LCS** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **LCSS** | Batch ID: **68623** | RunNo: **89348** |
| Prep Date: **7/7/2022** | Analysis Date: **7/8/2022** | SeqNo: **3178205** 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 | 87.0 | 80 | 120 | | | |
| Toluene | 0.88 | 0.050 | 1.000 | 0 | 88.3 | 80 | 120 | | | |
| Ethylbenzene | 0.88 | 0.050 | 1.000 | 0 | 88.0 | 80 | 120 | | | |
| Xylenes, Total | 2.6 | 0.10 | 3.000 | 0 | 86.9 | 80 | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.87 | | 1.000 | | 87.4 | 70 | 130 | | | |

| Sample ID: **mb-68623** | SampType: **MBLK** | TestCode: **EPA Method 8021B: Volatiles** |
|---|---|---|
| Client ID: **PBS** | Batch ID: **68623** | RunNo: **89348** |
| Prep Date: **7/7/2022** | Analysis Date: **7/8/2022** | SeqNo: **3178206** 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 | 0.87 | | 1.000 | | 86.7 | 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 interference |
| B | Analyte detected in the associated Method Blank |
| E | Estimated value |
| 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: www.hallenvironmental.com*

# Sample Log-In Check List

Client Name: **Vertex Resources Services, Inc.** Work Order Number: **2207186** RcptNo: 1

Received By: **Juan Rojas** **7/7/2022 7:45:00 AM**

Completed By: **Cheyenne Cason** **7/7/2022 7:48:55 AM**

Reviewed By: 7-7-22

## 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: JM 7/7/22

## 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 | Not Present | | | |

# Chain-of-Custody Record

Client: EOG / Vertex

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: Juice #2 Battery

Project #: 22E-00716-011

Project Manager: Monica Peppin

Sampler: CD

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.4-0.1=0.3 (°C)

| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. 2207186 |
|---|---|---|---|---|---|---|
| 7/1 | 10:00 | Soil | BES22-01 4' | 4oz | Ice | 001 |
| | 10:05 | | BES22-03 4' | | | 002 |
| | 10:10 | | BES22-04 6' | | | 003 |
| | 10:15 | | BES22-05 6' | | | 004 |
| | 10:20 | | BES22-06 6' | | | 005 |
| | 10:25 | | BES22-07 6' | | | 006 |
| | 10:30 | | BES22-08 6' | | | 007 |

| Date | Time | Relinquished by: | Received by: | Via: | Date | Time |
|---|---|---|---|---|---|---|
| | | | | | 7/6/22 | 750 |
| 7/6/22 | 1900 | | | courier | 7/7/22 | 7:45 |

**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

**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) |
|---|---|---|---|---|---|---|---|---|---|
| ✓ | ✓ | | | | | ✓ | | | |

Remarks: CC: Chance Dixon
Direct Bill EOG

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.

**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 141497

## CONDITIONS

| | |
|---|---|
| Operator:<br>EOG RESOURCES INC<br>P.O. Box 2267<br>Midland, TX 79702 | OGRID:<br>7377 |
| | Action Number:<br>141497 |
| | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| amaxwell | None | 10/11/2022 |