



June 9, 2022

Vertex Project #: 22E-00347

**Spill Closure Report:**      Avalanche Journal State Battery  
Unit L, Section 04, Township 08 South, Range 27 East  
County: Chaves  
API: N/A  
Tracking Number: nAPP2207560537

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

**New Mexico Oil Conservation Division – District 2 – Artesia**

811 South First Street  
Artesia, New Mexico 88210

EOG Resources, Inc. (EOG) retained Vertex Resource Services Inc. (Vertex) to conduct a spill assessment and remediation for historical crude oil and produced water releases that occurred at Avalanche Journal State Battery (hereafter referred to as “Avalanche Battery”). EOG provided notification of the historical impacts to New Mexico Oil Conservation Division (NMOCD) District 2 and the New Mexico State Land Office (NMSLO), who own the property, on March 16, 2022, via the initial C-141 Release Notification (Attachment 1). The NMOCD tracking number assigned to this incident is nAPP2207560537.

This letter provides a description of the spill assessment and remediation activities and demonstrates that closure criteria established in 19.15.29.12 *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) have been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for closure of this release.

**Incident Description**

The Avalanche Battery site was owned and operated by Roger Slayton of DBA Escudilla Oil Company prior to the time of abandonment. EOG was contacted by the NMSLO due to a past vested interest and stake regarding the Avalanche Journal State #006 and other wells in the immediate area. Escudilla Oil Company did not report any releases at the location during their tenure operating the site. Enforcement action cMCS0313226952 was submitted to NMOCD on May 9, 2003, for an unreported produced water release in violation of R-116.A. The incident was resolved on May 30, 2003. Further documentation of this event and the volumes associated with the impact were not available on the NMOCD’s online permitting system under API #: 30-005-10488.

On March 9, 2022, Vertex investigated the reported presence of historical crude oil and produced water impacts at Avalanche Battery for EOG. The exact volumes of crude oil and produced water released were unknown, as were the release dates. No oil was released into undisturbed areas or waterways based on observations made in the field. The impacted area was determined to be definitively historical based on the hardening of surface deposits into asphaltene.

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Impacts assessed on the surface were deemed substantial enough to effectively quantify that a reportable release had occurred. Characterization of the site was performed to determine the horizontal and vertical extent of the contamination.

## Site Characterization

The releases at Avalanche Battery occurred on state-owned land, N 33.64667, W 104.20297, approximately 22 miles northeast of Roswell, New Mexico. The legal description for the site is Unit L, Section 04, Township 08 South, Range 27 East, Chaves County, New Mexico. This location is within the Permian Basin in southeast New Mexico and has historically been used for oil and gas exploration and production. An aerial photograph and site schematic are included in Attachment 2.

Avalanche Battery is typical of oil and gas exploration and production sites in the western portion of the Permian Basin and was used for oil and gas production and storage. The following sections specifically describe the area in which the Avalanche Battery facility is located.

The surrounding landscape is associated with terraces typical of elevations of 2,500 to 5,300 feet above sea level. The climate is semi-arid, with average annual precipitation ranging between 10 and 17 inches. Historically, the plant community was dominated by grasses, which stabilized the potentially erosive sandy soils; however, more recent conditions, resulting from fire suppression and extensive grazing, show increased woody plant abundance. The dominant grass species are blue grama and black grama, with scattered yucca, sand sage, and mesquite. Short grasses are a significant proportion of ground cover while shrubs, litter and, to a lesser extent, bare ground compose the remainder (United States Department of Agriculture, Natural Resources Conservation Service, 2022).

The *Geological Map of New Mexico* indicates the surface geology at Avalanche Battery is comprised of Qep – eolian and piedmont deposits that include eolian sands interlaid with piedmont-slope deposits (New Mexico Bureau of Geology and Mineral Resources, 2022). The Natural Resources Conservation Service *Web Soil Survey* characterizes the soil at the site as Ratliffe-Redona association, characterized by fine sandy loam and sandy clay loam soil. It tends to be well-drained with negligible to low runoff and moderate to high available moisture levels in the soil profile (United States Department of Agriculture, Natural Resources Conservation Service, 2022). There is medium potential for karst geology to be present near Avalanche Battery, though some erosional karst is possible (United States Department of the Interior, Bureau of Land Management, 2018).

There is no surface water located at Avalanche Battery. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located approximately 580.8 feet southwest of the site. A freshwater stock pond is located approximately 3,326.4 feet west of the release site (United States Fish and Wildlife Service, 2022). At Avalanche Battery, there are no continuously flowing watercourses, lakebeds, sinkholes, playa lakes, or other critical water or community features nearby as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

The nearest active well to Avalanche Battery is a New Mexico Office of the State Engineer-identified domestic water well, located approximately 1,636.8 feet southwest of the site. The nearest well with a depth to groundwater reference is a livestock and irrigation water well drilled in 2001 located approximately 0.49 miles southwest of the site. The recorded

depth to groundwater at that location was 87 feet below ground surface (bgs: New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System, 2022). Documentation pertaining to site characterization and depth to groundwater determination is included in Attachment 3.

## Closure Criteria Determination

Using site characterization information, a closure criteria determination worksheet (Attachment 3) was completed to determine if the release was subject to any of the special case scenarios outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Based on data included in the closure criteria determination worksheet, the historical releases at Avalanche Battery are not subject to the requirements of Paragraph (4) of Subsection C of 19.15.29.12 NMAC and the closure criteria for remediation of the site below 4 feet bgs were determined to be associated with the constituent concentration limits presented in Table 1, based on depth to groundwater and the requirements of 19.15.29.13 NMAC. The reclamation closure criteria for the surface 4 feet of material were determined to be associated with the strictest constituent concentration limits presented in Table 2.

Table 1. Remediation Closure Criteria for Soils Impacted by a Release (>4 feet bgs)		
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/L TDS <sup>1</sup>	Constituent	Limit
51 feet - 100 feet	Chloride	10,000 mg/kg
	TPH <sup>2</sup> (GRO + DRO + MRO)	2,500 mg/kg
	GRO + DRO	1,000 mg/kg
	BTEX <sup>3</sup>	50 mg/kg
	Benzene	10 mg/kg

<sup>1</sup>Total Dissolved Solids (TDS)

<sup>2</sup>Total petroleum hydrocarbons (TPH) = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO)

<sup>3</sup>Benzene, toluene, ethylbenzene, and xylenes (BTEX)

Table 2. Reclamation Closure Criteria for Soils Impacted by a Release (0-4 feet bgs)		
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS <sup>1</sup>	Constituent	Limit
<50 feet	Chloride	600 mg/kg
	TPH <sup>2</sup> (GRO + DRO + MRO)	100 mg/kg
	BTEX <sup>3</sup>	50 mg/kg
	Benzene	10 mg/kg

## Remedial Actions

Initial spill inspection and site characterization activities at Avalanche Battery were completed by Vertex between February 14 and March 29, 2022, including vertical and horizontal delineation. Due to equipment constraints to reach the required depth to complete vertical delineation at the location, Harrison Cooper LLC was subcontracted by Vertex to advance boreholes with a core rig on March 28, 2002. Borehole BH22-24 was sampled at various intervals from 20 to 50 feet bgs. To complete vertical delineation of the historical releases that occurred near the former tank battery, the location of BH22-24 was chosen in the center of the observed impacted area where paraffin deposits had accumulated on the surface. On April 14, 2022, the final lab analytical results for BH22-24 at 50 feet were received and were found to be below the strictest criteria required for characterization/vertical delineation. Horizontal delineation was completed on May 9, 2022, when soil samples from borehole BH22-27 were collected off the eastern perimeter of the work area. The Daily Field Report (DFR) and field screening data associated with the site visits are included in Attachment 4. Using initial field screening and soil sample laboratory data as presented in Table 3 (Attachment 5), the historically impacted area was delineated horizontally as presented on Figure 1 (Attachment 2).

Starting on April 4, 2022, Vertex supervised excavation of contaminated material starting at the eastern boundary of the historically impacted area. Initial excavation activities focused on removing the surface material to 4 feet bgs in preparation for reclamation. A Vertex representative was on-site to conduct excavation side wall field screening to guide and extend the excavation as needed to adhere to NMOCD reclamation requirements (strictest criteria from surface to 4 feet bgs). On April 6 and 13, 2022, EOG provided 48-hour notification of confirmation sampling to NMOCD (Attachment 6), as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMOC. Vertex collected a total of 33 confirmatory samples from the walls of the outer edge of the excavation from surface to 4 feet bgs. Confirmatory wall excavation sample locations and the associated analytical data from surface to 4 feet bgs are presented on Figure 2 and Table 4 (Attachments 2 and 5), respectively.

Excavation within the larger impacted area progressed to depths beyond 4 feet bgs, as needed, to follow NMOCD remediation requirements based on depth to groundwater. A Vertex representative was on-site to conduct excavation side wall field screening and guide the excavation. Excavation to depths of 4, 5, 7, 8 and 10 feet bgs were required within



portions of the excavation to remove contaminated materials to meet NMOCD constituent criteria. Vertex initially collected 94 confirmatory base excavation samples and 19 confirmatory wall excavation samples from the surfaces below 4 feet bgs. Laboratory results for BES22-12, BES22-41 and BES22-42 exceeded hydrocarbon thresholds, resulting in further excavation.

On May 5 and 12, 2022, EOG provided 48-hour notification of confirmation sampling to NMOCD (Attachment 6), as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC. Vertex supervised further excavation of the areas within the excavation exceeding NMOCD criteria and collected additional confirmatory base and wall samples upon completion. The final depths within the excavation were 4, 5, 6, 7, 8, 10, 12 and 15 feet bgs. A total of 95 confirmatory base excavation samples and 24 confirmatory wall excavation samples from the surfaces below 4 feet bgs were collected. Confirmatory base and wall excavation sample locations and respective analytical data below 4 feet bgs are presented on Figure 2 and Table 5 (Attachments 2 and 5), respectively.

On May 11th, 2022, excavation was completed with approximately 3,858 total yards transferred to Gandy Marley landfill for disposal. The total surface area of the excavation walls was 4,086 square feet, and the total surface area of the excavation base was 15,938 square feet. All confirmatory samples were collected as five-point composites. Each composite sample was representative of no more than 200 square feet per the alternate sampling method outlined in Subparagraph (c) of Paragraph (1) of Subsection D 19.15.29.12 NMAC, which does not require prior NMOCD approval. The composite samples were placed into laboratory-provided containers, preserved on ice, and submitted to a National Environmental Laboratory Accreditation-approved laboratory for chemical analysis.

Laboratory analyses included Method 300.0 for chlorides, Method 8021B for volatile organics, including BTEX, and EPA Method 8015 for TPH, including MRO, DRO and GRO. Confirmatory sample analytical data are summarized in Table 4. Laboratory data reports and chain of custody forms are included in Attachment 7.

A GeoExplorer 7000 Series Trimble global positioning system (GPS) unit, or equivalent, was used to map the approximate center of each of the five-point composite samples. The confirmatory sample locations and final horizontal and vertical extents of the historical impact excavation are presented on Figure 2 (Attachment 2).

## Closure Request

Vertex recommends no additional remedial actions to address the release at Avalanche Battery. Due to the sensitive nature of the release site, the excavation was left open until confirmation of closure by the NMOCD. Pending closure, the excavation will be backfilled with non-waste-containing, uncontaminated, earthen material, sourced locally and placed to meet the site's existing grade to prevent ponding of water and erosion. The site will then be subsequently ripped and seeded with the appropriate mixture to complete the associated reclamation requirements under NMAC 19.15.29.13.

Laboratory analyses of the confirmatory samples from surface to 4 feet bgs showed constituent of concern concentration levels below NMOCD closure criteria for areas where depth to groundwater is less than 50 feet bgs as shown in Table 2. Laboratory analyses of the confirmatory samples collected 4 feet bgs and below showed constituent of concern concentration levels below NMOCD closure criteria for areas where depth to groundwater is between 51 and 100 feet bgs.

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as shown in Table 1. There are no anticipated risks to human, ecological or hydrological receptors associated with the release site.

Vertex requests that this incident (nAPP2207560537) be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. EOG certifies that all information in this report and the attachments is correct, and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure on the historical releases at Avalanche Battery.

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 575.988.2681 or mmoffitt@vertex.ca.



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Lakin Pullman, B.Sc.  
ENVIRONMENTAL TECHNICIAN, REPORTING

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June 9, 2022

Date



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Michael Moffitt, B.Sc.  
PROJECT MANAGER, REPORT REVIEW

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June 9, 2022

Date

## Attachments

- Attachment 1. NMOCD C-141 Initial Notification
- Attachment 2. Site Schematic and Initial Characterization and Confirmatory Sample Locations
- Attachment 3. Closure Criteria for Soils Impacted by a Release Research Determination Documentation
- Attachment 4. Daily Field Report(s) with Photographs and Field Screening Results
- Attachment 5. Initial Characterization and Confirmatory Sampling Laboratory Results
- Attachment 6. Required 48-hr Notification of Confirmatory Sampling to Regulatory Agencies
- Attachment 7. Laboratory Data Reports/Chain of Custody Forms

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## References

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

New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System. (2022). *Water Column/Average Depth to Water Report*. Retrieved from <http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html>.

New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code – Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.

United States Department of Agriculture, Natural Resources Conservation Service. (2022). *Web Soil Survey*. Retrieved from <https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>.

United States Department of the Interior, Bureau of Land Management. (2018). *CFO Karst Public*. [https://www.nm.blm.gov/shapeFiles/cfo/carlsbad\\_spatial\\_data.html](https://www.nm.blm.gov/shapeFiles/cfo/carlsbad_spatial_data.html)

United States Fish and Wildlife Service. (2022). *National Wetlands Inventory*. Retrieved from <https://www.fws.gov/wetlands/data/Mapper.html>.

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## Limitations

This report has been prepared for the sole benefit of EOG Resources, Inc. (EOG). 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. 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**

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

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

Incident ID	nAPP2207560537
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377
Contact Name Chase Settle	Contact Telephone 575-748-1471
Contact email Chase_Settle@eogresources.com	Incident # nAPP2207560537
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

### Location of Release Source

Latitude 33.64667 Longitude -104.20297  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Avalanche Journal State Battery	Site Type Battery
Date Release Discovered 3/9/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
L	4	8S	27E	Chaves

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) Unknown	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) Unknown	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release This site was owned and operated by a defunct operator at the time of it's abandonment, however EOG Resources Inc. was still the lease holder on record. There are historical impacts present at the battery, the environmental consultant that has been retained to complete the remediation believes that the release volume most likely breached the threshold based on the analytical data collected and historical imagery. Notification of this was recieved from the consultant on March 9, 2022.

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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Chase Settle</u>	Title: <u>Rep Safety &amp; Environmental Sr</u>
Signature: <u>Chase Settle</u>	Date: <u>03/16/2022</u>
email: <u>Chase_Settle@eogresources.com</u>	Telephone: <u>575-748-1471</u>
<b><u>OCD Only</u></b>	
Received by: _____	Date: _____

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Application ID	

## Site Assessment/Characterization

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

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

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

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

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

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



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Oil Conservation Division

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

Printed Name: Amber Griffin Title: Rep Safety & Environmental Sr  
Signature: *Amber Griffin* Date: 6/9/2022  
email: amber\_griffin@eogresources.com Telephone: 575-748-1471

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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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 OCD 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: Amber Griffin Title: Rep Safety & Environmental Sr  
Signature: *Amber Griffin* Date: 6/9/2022  
email: amber\_griffin@eogresources.com Telephone: 575-748-1471

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by: *Jennifer Nobui* Date: 06/21/2022  
Printed Name: Jennifer Nobui Title: Environmental Specialist A

**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 90880

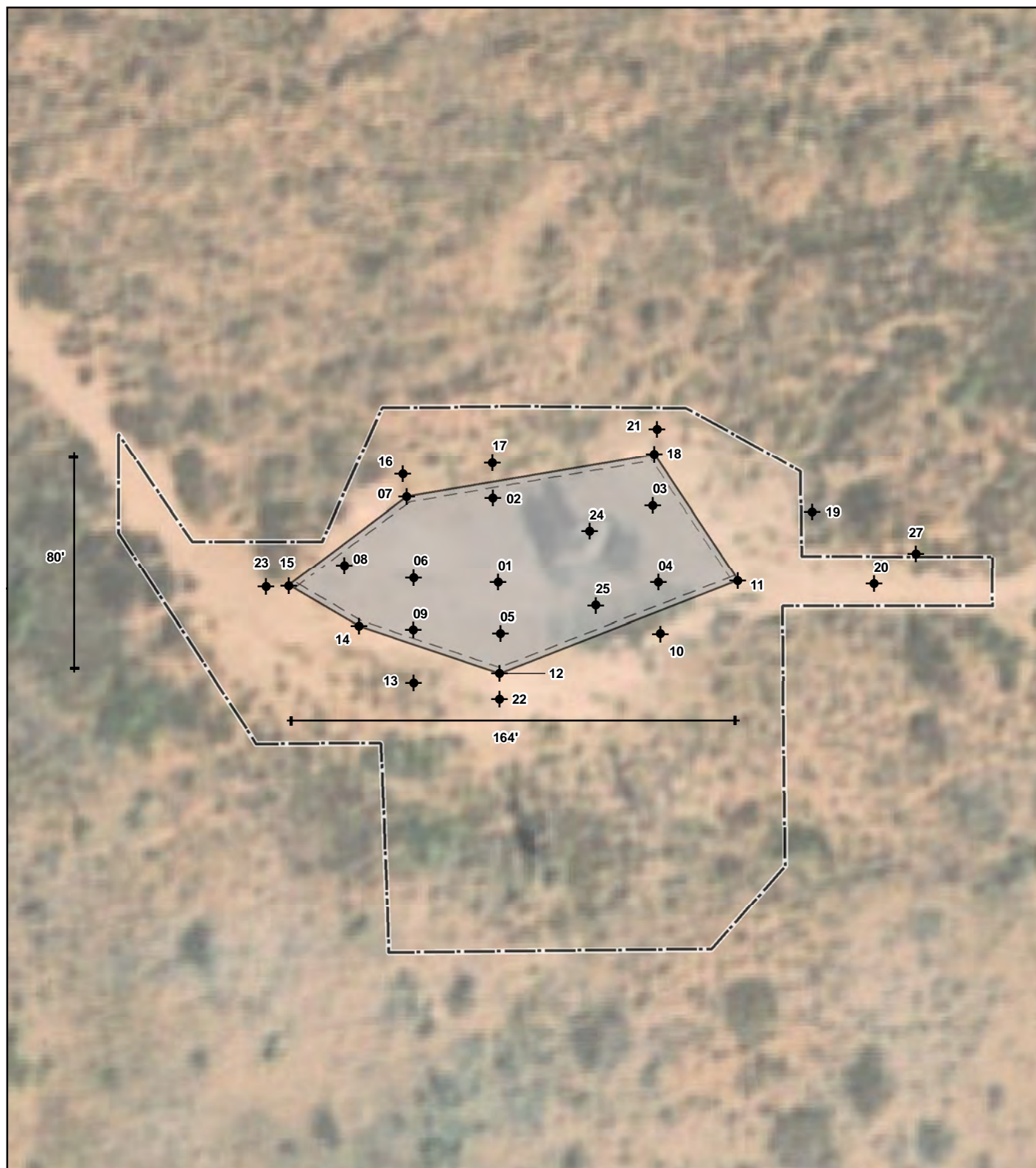
**CONDITIONS**

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 90880
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jharimon	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	3/17/2022

## **ATTACHMENT 2**



- ◆ Borehole ( Prefixed by "BH22-" )
- ▨ Area of Historical Impacts (Approximate) - 7,634 sq. ft.
- ▭ Lease Boundary (Approximate)



0 15 30 ft.  
NAD 1983 UTM Zone 13N  
Date: May 05/22

Map Center:  
Lat: 33.646672,  
Long: -104.203057



### Characterization Sample Locations Avalanche Journal State Battery

FIGURE:  
**1**



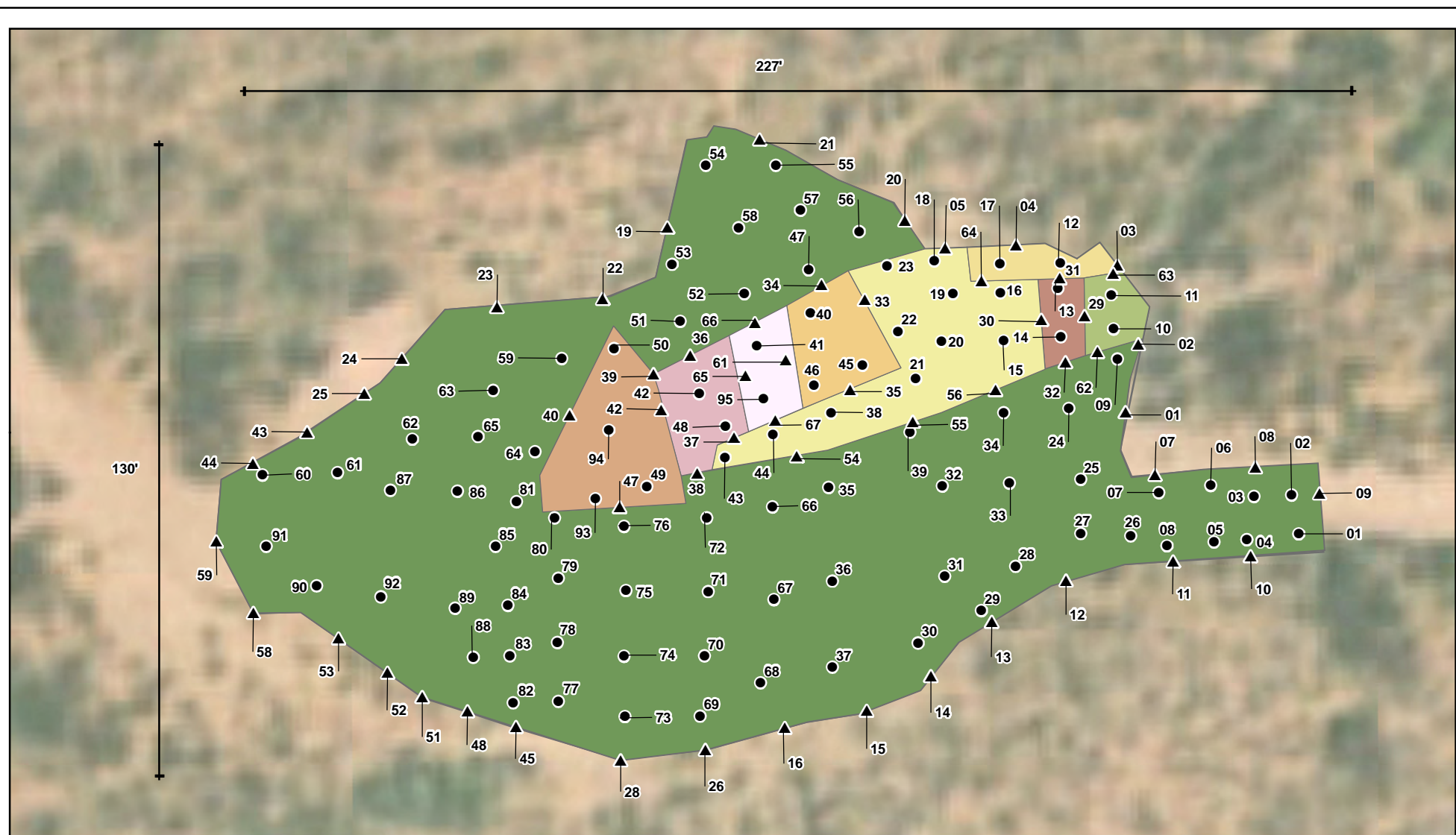
Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Background Imagery from Maxar 2021. Features from field survey, Vertex Professional Services Ltd., 2022.

**VERSATILITY. EXPERTISE.**



Document Path: G:\1-Projects\US PROJECTS\EOG Resources Inc\22E-00347\001 - Avalanche Journal Battery\Figure 2 Confirmatory Sample Point Locations (22E-00374).mxd



- |                                      |  |                                    |                                    |   |
|--------------------------------------|--|------------------------------------|------------------------------------|---|
| ● Base Sample (Prefixed by "BES22-") | 5' Excavation Area - East (~170 sq. ft.)   | 7' Excavation Area (~383 sq. ft.)  | 12' Excavation Area (~339 sq. ft.) | Total Excavation Area (~15,938 sq. ft.) |
| ▲ Wall Sample (Prefixed by "WES22-") | 5' Excavation Area - West (~1,250 sq. ft.) | 8' Excavation Area (~686 sq. ft.)  | 15' Excavation Area (~250 sq. ft.) |   |
| 4' Excavation Area (~12,504 sq. ft.) | 6' Excavation Area (~186 sq. ft.)          | 10' Excavation Area (~151 sq. ft.) |                                    |   |



0 5 10 20 30 ft.  
Map Center:  
Lat/Long: 33.646706, -104.202997

NAD 1983 UTM Zone 13N  
Date: Jun 08/22



### Confirmatory Sample Locations Avalanche Journal State Battery

FIGURE:

2



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 imagery from Esri., 2021. Feature locations from GPS, Vertex Professional Services., 2022.

VERSATILITY. EXPERTISE.

## **ATTACHMENT 3**

Closure Criteria Worksheet				
Site Name: Avalanche Journal State Battery				
Spill Coordinates:		X: 33.64667	Y: -104.20297	
Site Specific Conditions		Value	Unit	Reference
1	Depth to Groundwater	87	feet	1
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	585	feet	2
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	3,371	feet	3
4	Within 300 feet from an occupied residence, school, hospital, institution or church	27,269	feet	4
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, <b>or</b>	1,666	feet	5
	ii) Within 1000 feet of any fresh water well or spring	1,666	feet	5
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)	6
7	Within 300 feet of a wetland	8,365	feet	7
8	Within the area overlying a subsurface mine	No	(Y/N)	8
9	Within an unstable area (Karst Map)	Medium	Critical High Medium Low	9
10	Within a 100-year Floodplain	500	year	10
11	Soil Type	fine sandy loam, sandy clay loam, clay loam		11
12	Ecological Classification	Sandy loam 12-18 inches precipitation		12
13	Geology	Eolian and piedmont deposits		13
NMAC 19.15.29.12 E (Table 1) Closure Criteria		51-100'	<50' 51-100' >100'	





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,  
O=orphaned,  
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">RA 11697 POD1</a>		RA	CH	2	1	1	09	08S	27E	573916	3722682	582	250		
<a href="#">RA 11696 POD1</a>		RA	CH	2	1	1	09	08S	27E	573938	3722600	664	250		
<a href="#">RA 08112</a>		RA	LI	2	1	1	09	08S	27E	573900	3722599*	666	670	564	106
<a href="#">RA 08212</a>		RA	CH	2	1	1	09	08S	27E	573900	3722599*	666	220		
<a href="#">RA 11698 POD1</a>		RA	CH	2	1	1	09	08S	27E	573820	3722600	670	250		
<a href="#">RA 09960</a>		RA	CH		4	2	05	08S	27E	573393	3723707*	678	265		
<a href="#">RA 10050</a>		RA	CH	2	2	2	08	08S	27E	573498	3722597*	783	240	87	153
<a href="#">RA 08555</a>		RA	CH	4	2	1	05	08S	27E	572685	3724003*	1428	290	196	94
<a href="#">RA 13051 POD1</a>		RA	CH	1	4	4	12	08S	26E	570102	3721365	4253	300		

Average Depth to Water: **282 feet**

Minimum Depth: **87 feet**

Maximum Depth: **564 feet**

**Record Count:** 9

### UTM NAD83 Radius Search (in meters):

**Easting (X):** 573908

**Northing (Y):** 3723265

**Radius:** 5000

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/27/22 3:59 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER





# Avalanche Journal State Battery Proximity Map

Nearest Active Water Well  
Domestic Well RA 08554  
Distance: 0.31 miles (1,666 feet)

Nearest Depth to Groundwater (DTGW) Reference Well  
RA 10050  
Distance: 0.49 miles (2,569 feet)  
DTGW Date: 05/30/2001  
DTGW: 87 feet bgs

Avalanche Journal State Battery

## Legend

-  Avalanche Journal State Battery
-  Water Wells

RA 08554

RA 10050

70







# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64 Q16 Q4 Sec Tws Rng</b>	<b>X</b>	<b>Y</b>
RA 10050		2 2 2 08 08S 27E	573498	3722597*

x

**Driller License:** 555      **Driller Company:** L & C DRILLING COMPANY

**Driller Name:** PARNELL, LLOYD

<b>Drill Start Date:</b> 05/23/2001	<b>Drill Finish Date:</b> 05/30/2001	<b>Plug Date:</b>
<b>Log File Date:</b> 02/19/2002	<b>PCW Rcv Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b>
<b>Casing Size:</b> 8.63	<b>Depth Well:</b> 240 feet	<b>Depth Water:</b> 87 feet

x

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	180	240	Shallow Alluvium/Basin Fill

x

<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>
	195	235

x

<b>Meter Number:</b> 4856	<b>Meter Make:</b> HERSEY
<b>Meter Serial Number:</b> 0104944	<b>Meter Multiplier:</b> 1000.0000
<b>Number of Dials:</b> 6	<b>Meter Type:</b> Diversion
<b>Unit of Measure:</b> Gallons	<b>Return Flow Percent:</b>
<b>Usage Multiplier:</b>	<b>Reading Frequency:</b>

### Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
11/08/2001	2001	0	A	CH	initial reading	0
11/08/2001	2001	221033	A	CH		67.833
02/25/2002	2002	306878	A	RPT	rpt by Eric Gibson	26.345
02/25/2002	2002	0	A	CH		0
03/22/2002	2002	848	A	MB		2.603
04/24/2002	2002	1933	A	AM		3.330

x

<b>**YTD Meter Amounts:</b>	<b>Year</b>	<b>Amount</b>
	2001	67.833
	2002	32.278

x

\*UTM location was derived from PLSS - see Help

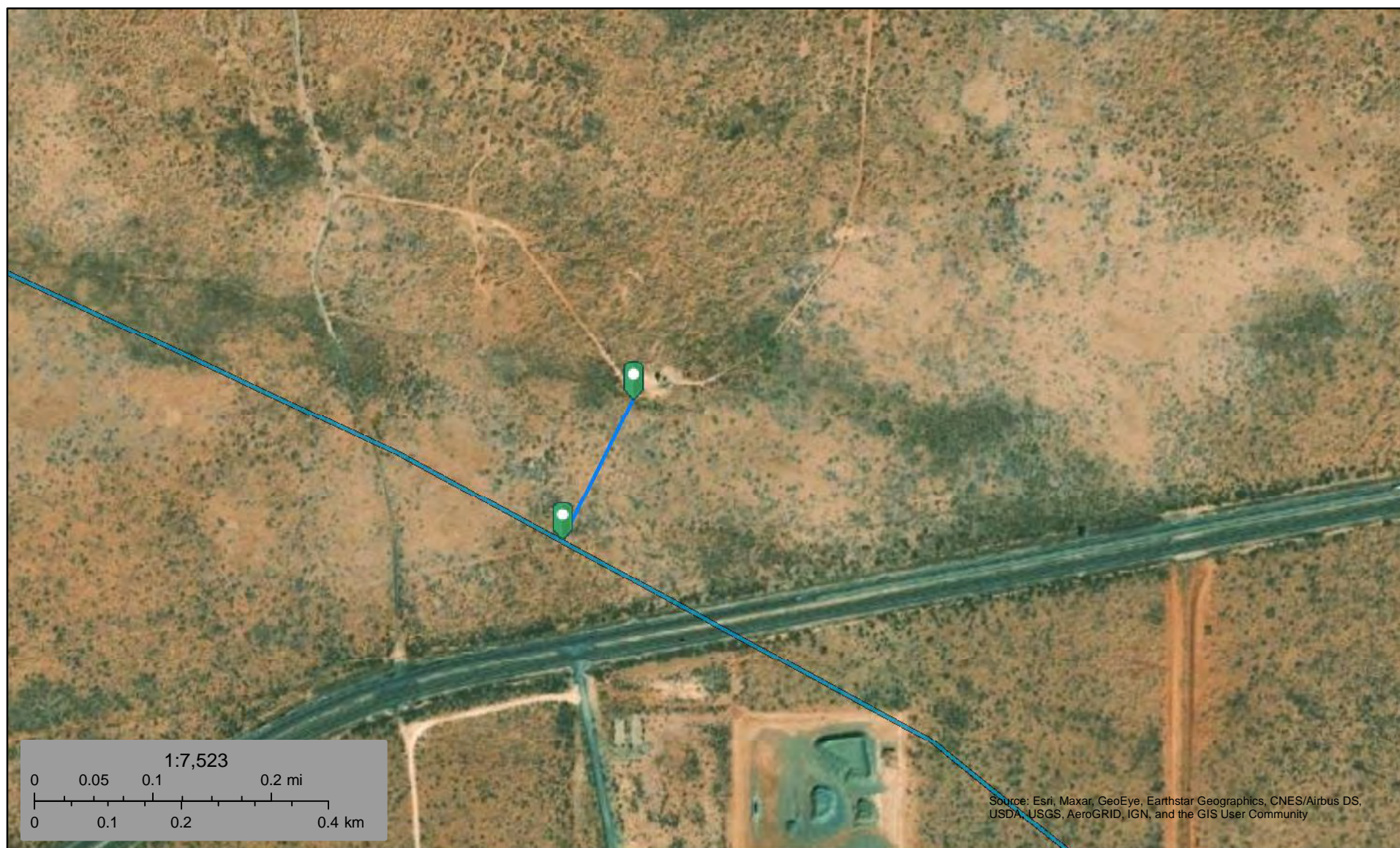
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4/27/22 4:23 PM

POINT OF DIVERSION SUMMARY



Intermittent 585 feet



April 27, 2022

**Wetlands**

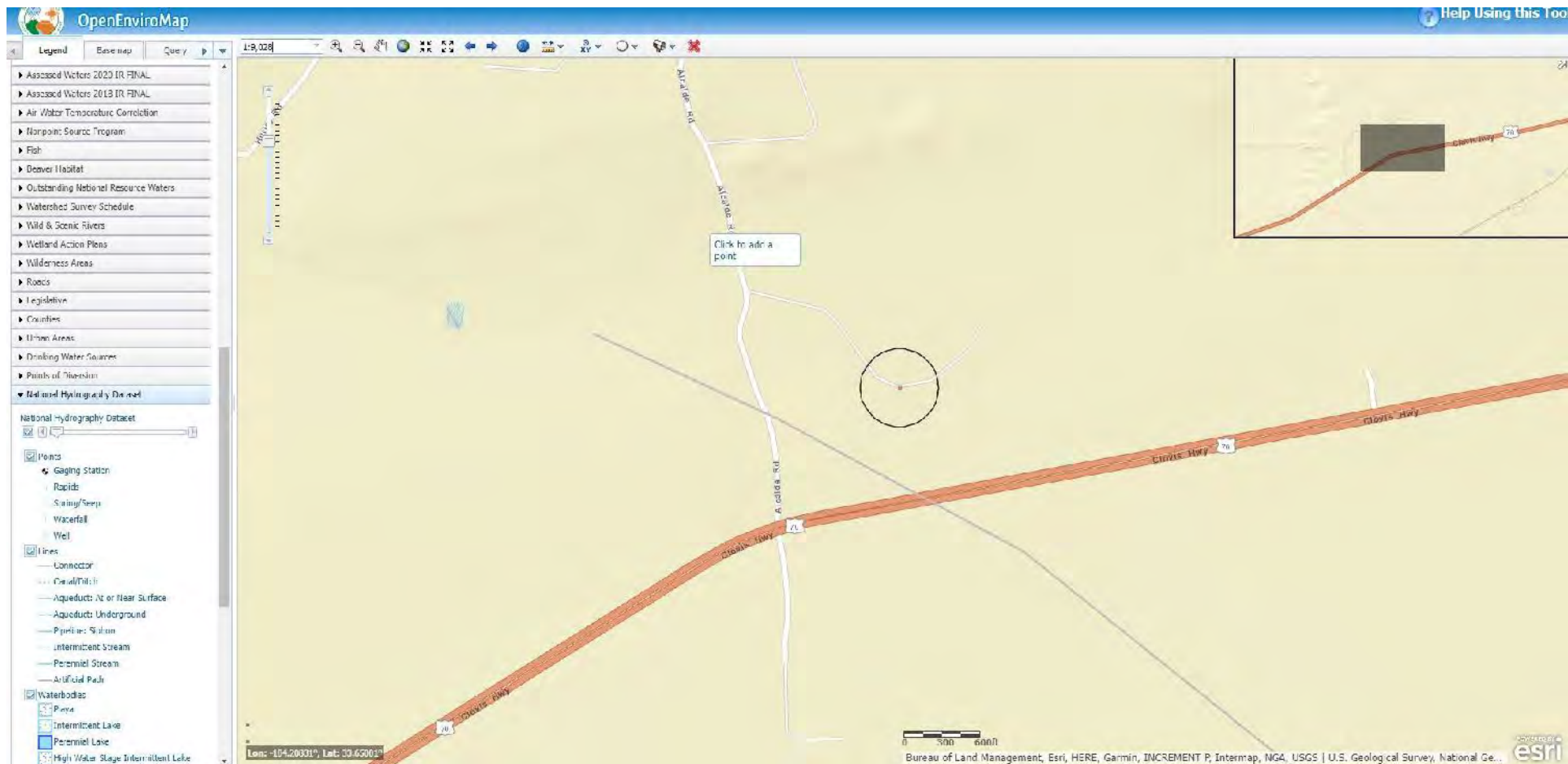
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.







Pond 3371 feet



April 27, 2022

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine




This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

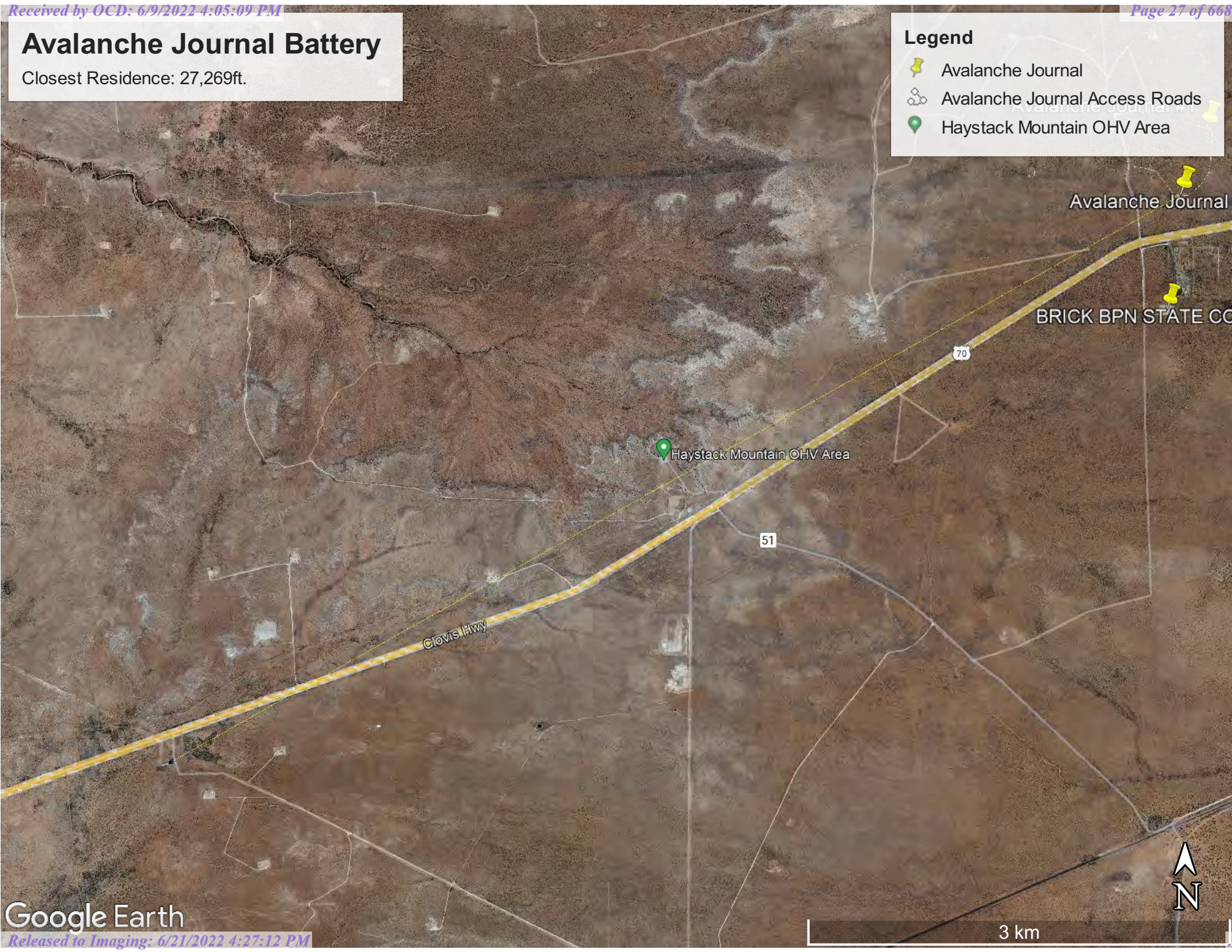


# Avalanche Journal Battery

Closest Residence: 27,269ft.

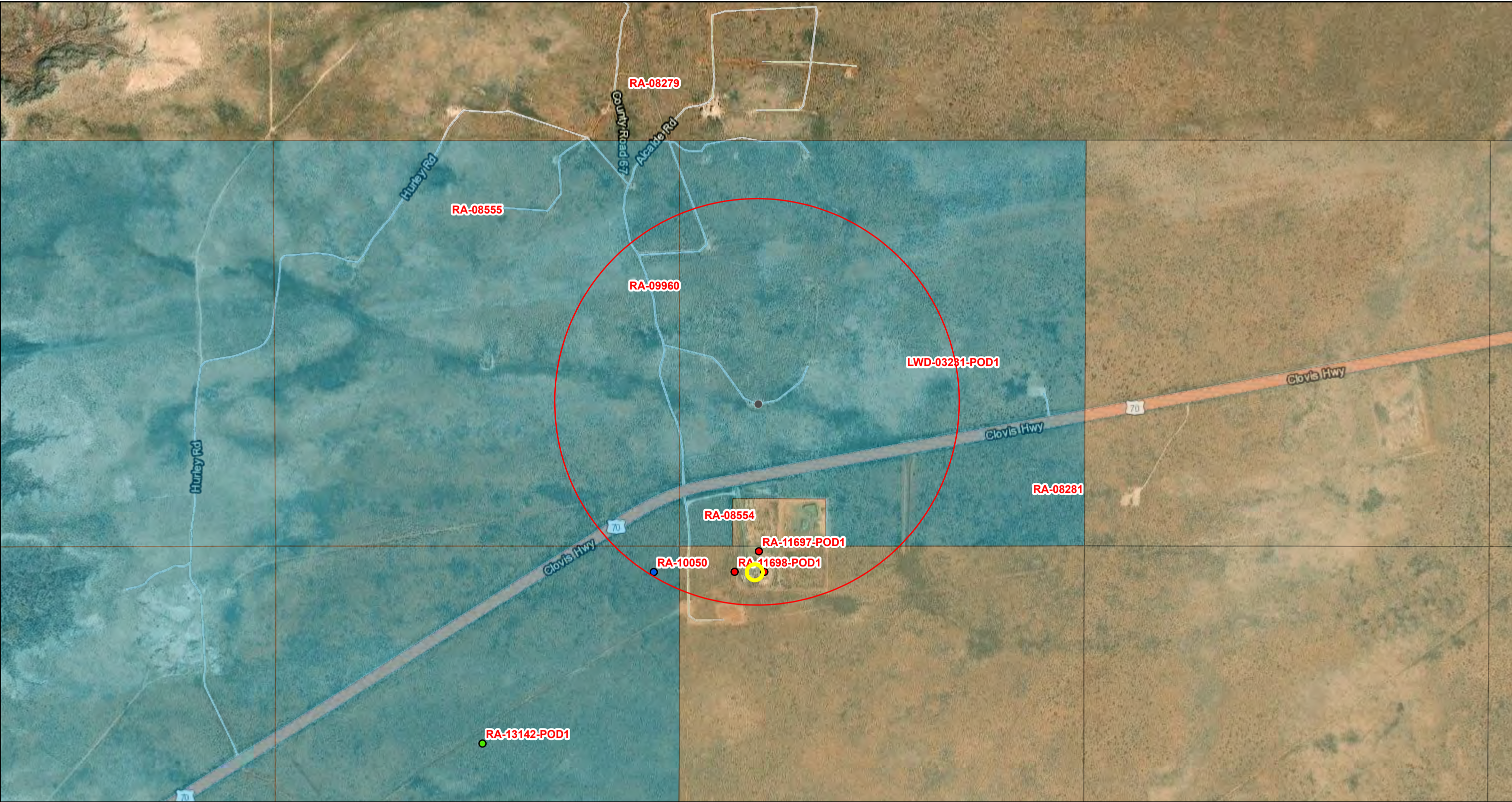
## Legend

-  Avalanche Journal
-  Avalanche Journal Access Roads
-  Haystack Mountain OHV Area





# OSE POD Locations, 0.5 mile



4/27/2022, 4:33:24 PM

GIS WATERS PODs

● Active

● Pending

● Plugged

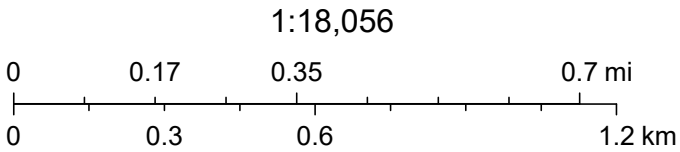
OSE District Boundary

New Mexico State Trust Lands

Subsurface Estate

Both Estates

SiteBoundaries




Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, U.S. Department of Energy Office of Legacy





# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
	LWD 03231 POD1	1	1	4	04	08S	27E	574500	3723412* 

x

**Driller License:****Driller Company:****Driller Name:****Drill Start Date:****Drill Finish Date:****Plug Date:****Log File Date:****PCW Rev Date:****Source:****Pump Type:****Pipe Discharge Size:****Estimated Yield:****Casing Size:****Depth Well:****Depth Water:**

x

\*UTM location was derived from PLSS - see Help

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4/27/22 4:48 PM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	RA 08112	2	1	1	09	08S	27E	573900	3722599* 

x

**Driller License:** 630 **Driller Company:** WEEHUNT, WESLEY DRLG. & PUMP S

**Driller Name:** WESLEY WEEHUNT

**Drill Start Date:** 01/22/1993 **Drill Finish Date:** 01/26/1993 **Plug Date:**

**Log File Date:** 02/01/1993 **PCW Rev Date:** **Source:** Shallow

**Pump Type:** **Pipe Discharge Size:** **Estimated Yield:**

**Casing Size:** **Depth Well:** 670 feet **Depth Water:** 564 feet

x

\*UTM location was derived from PLSS - see Help

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4/27/22 4:46 PM

POINT OF DIVERSION SUMMARY



# OSE POD Locations, 0.5 mile



4/27/2022, 4:56:02 PM

GIS WATERS PODs

● Active

● Plugged

OSE District Boundary

New Mexico State Trust Lands

Subsurface Estate

Both Estates

SiteBoundaries

1:4,514

00.040.090.18 mi

00.070.150.3 km

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, U.S. Department of Energy Office of Legacy

Released to Imaging: 6/21/2022 4:27:12 PM


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# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
	RA 08212	2	1	1	09	08S	27E	573900	3722599* 

x  
**Driller License:**

**Driller Company:**

**Driller Name:** JOHN RAINES

**Drill Start Date:**

**Drill Finish Date:** 05/13/1982

**Plug Date:**

**Log File Date:**

**PCW Rev Date:**

**Source:**

**Pump Type:**

**Pipe Discharge Size:**

**Estimated Yield:** 10 GPM

**Casing Size:** 8.63

**Depth Well:** 220 feet

**Depth Water:**

x  
\*UTM location was derived from PLSS - see Help

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4/27/22 4:44 PM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)							
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
	RA 08554	3	3	3	04	08S	27E	573698	3722802* 

x

**Driller License:****Driller Company:****Driller Name:****Drill Start Date:****Drill Finish Date:****Plug Date:****Log File Date:****PCW Rev Date:****Source:****Pump Type:****Pipe Discharge Size:****Estimated Yield:****Casing Size:****Depth Well:****Depth Water:**

x

\*UTM location was derived from PLSS - see Help

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4/27/22 4:51 PM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
	RA 08283	2	1	1	09	08S	27E	573900	3722599* 

x

**Driller License:****Driller Company:****Driller Name:****Drill Start Date:****Drill Finish Date:****Plug Date:****Log File Date:****PCW Rev Date:****Source:****Pump Type:****Pipe Discharge Size:****Estimated Yield:****Casing Size:****Depth Well:****Depth Water:**

x

\*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
	RA 08556	2	1	1	09	08S	27E	573900	3722599*



x

**Driller License:****Driller Company:****Driller Name:****Drill Start Date:****Drill Finish Date:****Plug Date:****Log File Date:****PCW Rcv Date:****Source:**

Shallow

**Pump Type:****Pipe Discharge Size:****Estimated Yield:****Casing Size:****Depth Well:****Depth Water:**

x

<b>Meter Number:</b>	4667	<b>Meter Make:</b>	HERSEY
<b>Meter Serial Number:</b>	0005394	<b>Meter Multiplier:</b>	100.0000
<b>Number of Dials:</b>	6	<b>Meter Type:</b>	Diversion
<b>Unit of Measure:</b>	Gallons	<b>Return Flow Percent:</b>	
<b>Usage Multiplier:</b>		<b>Reading Frequency:</b>	

x

**Meter Readings (in Acre-Feet)**

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
04/24/2001	2001	20353	A	RPT		0
05/03/2001	2001	33942	A	RPT		4.170
05/07/2001	2001	41861	A	RPT		2.430
06/25/2001	2001	103837	A	RPT		19.020
07/09/2001	2001	103837	A	RPT		0
08/10/2001	2001	143041	A	RPT		12.031
08/23/2001	2001	157179	R	RPT	Meter Rollover	4.339
10/12/2001	2001	199520	A	RPT		12.994
11/07/2001	2001	216857	A	RPT		5.321
12/11/2001	2001	236970	A	RPT		6.172
02/11/2002	2002	265543	A	RPT		8.769
03/13/2002	2002	294268	A	MB		8.815
04/24/2002	2002	312260	A	AM		5.522
05/03/2002	2002	332625	R	RPT	Meter Rollover	6.250
07/08/2002	2002	351805	A	RPT		5.886
08/12/2002	2002	375822	A	RPT		7.371

x

<b>**YTD Meter Amounts:</b>	<b>Year</b>	<b>Amount</b>
	2001	66.477
	2002	42.613

x

\*UTM location was derived from PLSS - see Help

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# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)							
<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
	RA 08284	2	1	1	09	08S	27E	573900	3722599* 

x

**Driller License:****Driller Company:****Driller Name:****Drill Start Date:****Drill Finish Date:****Plug Date:****Log File Date:****PCW Rev Date:****Source:****Pump Type:****Pipe Discharge Size:****Estimated Yield:****Casing Size:****Depth Well:****Depth Water:**

x

\*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
		Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	RA 09960	4	2	05	08S	27E		573393	3723707*

x  
**Driller License:****Driller Company:****Driller Name:****Drill Start Date:****Drill Finish Date:****Plug Date:****Log File Date:****PCW Rev Date:****Source:****Pump Type:****Pipe Discharge Size:****Estimated Yield:****Casing Size:** 7.00**Depth Well:** 265 feet**Depth Water:**x  
\*UTM location was derived from PLSS - see Help

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4/27/22 4:28 PM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Water Right Summary

**WR File Number:** RA 08284      **Subbasin:** RA      **Cross Reference:** -  
**Primary Purpose:** STK    72-12-1 LIVESTOCK WATERING  
**Primary Status:** DCL    DECLARATION  
**Total Acres:** 0      **Subfile:** -      **Header:** -  
**Total Diversion:** 3      **Cause/Case:** -  
**Owner:** STRANLEY BROS., INC.

x

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
<a href="#">245749</a>	<a href="#">DCL</a>	<a href="#">1992-04-23</a>	DCL	PRC	RA 08284	T	0	3	

x

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64Q16Q4Sec	Tws	Rng	X	Y	Other Location Desc
<a href="#">RA 08284</a>			2	1	1	09 08S 27E	573900	3722599*	

\*An (\*) after northing value indicates UTM location was derived from PLSS - see Help

x

### Priority Summary

Priority	Status	Acres	Diversion	Pod Number
12/31/1956	DCL	0	3	<a href="#">RA 08284</a>

x

### Place of Use

Q	Q	256	64	Q16	Q4Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
											STK		DCL	NO PLACE OF USE GIVEN

x

### Source

Acres	Diversion	CU	Use	Priority	Source	Description
0	3		STK	12/31/1956	GW	SHALLOW

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4/27/22 4:41 PM

 WATER RIGHT  
SUMMARY



# New Mexico Office of the State Engineer

## Water Right Summary

**WR File Number:** RA 08112      **Subbasin:** RA      **Cross Reference:** -  
**Primary Purpose:** STK    72-12-1 LIVESTOCK WATERING  
**Primary Status:** DCL    DECLARATION  
**Total Acres:** 0      **Subfile:** -      **Header:** -  
**Total Diversion:** 3      **Cause/Case:** -  
**Owner:** DONALDSON SAM A

x

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
<a href="#">245347</a>	<a href="#">DCL</a>	<a href="#">1993-05-18</a>	DCL	PRC	RA 08112	T	0	3	

x

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64Q16Q4Sec	Tws	Rng	X	Y	Other Location Desc
<a href="#">RA 08112</a>		Shallow	2	1	1	09	08S 27E	573900 3722599*	

\*An (\*) after northing value indicates UTM location was derived from PLSS - see Help

x

### Priority Summary

Priority	Status	Acres	Diversion	Pod Number	
10/31/1934	DCL	0	3	<a href="#">RA 08112</a>	Shallow

x

### Place of Use

Q	Q	256	64	Q16	Q4Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
											STK		DCL	NO PLACE OF USE GIVEN

x

### Source

Acres	Diversion	CU	Use	Priority	Source	Description
0	3		STK	10/31/1934	GW	SHALLOW

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WATER RIGHT  
SUMMARY



# New Mexico Office of the State Engineer

## Water Right Summary


[get image list](#)

**WR File Number:** LWD 03231      **Subbasin:** RA      **Cross Reference:** LWD-RA-317  
**Primary Purpose:** PLS      NON 72-12-1 LIVESTOCK WATERING  
**Primary Status:** DCL      DECLARATION  
**Total Acres:** 0.1      **Subfile:** -      **Header:** -  
**Total Diversion:** 0.1      **Cause/Case:** -  
**Owner:** STRALEY BROS INC  
**Contact:** GEORGE L STRALEY JR

### Documents on File


[get images](#)

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
696708	DCL	1992-04-23	DCL	PRC	LWD-RA-317	T	0.1	0.1	

### Current Points of Diversion

POD Number	Well Tag	Source	Q				(NAD83 UTM in meters)		Other Location Desc		
			64	Q16	Q4	Sec	Tws	Rng		X	Y
<a href="#">LWD 03231 POD1</a>			1	1	4	04	08S	27E	574500	3723412*	

\*An (\*) after northing value indicates UTM location was derived from PLSS - see Help

### Priority Summary

Priority	Status	Acres	Diversion	Pod Number
12/31/1940	DCL	0.1	0.1	<a href="#">LWD 03231 POD1</a>

### Place of Use

Q		Q		Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
256	64	Q16	Q4							
1	1	4	04	08S	27E	0.1	0.1	PLS	12/31/1940	DCL

### Source

Acres	Diversion	CU	Use	Priority	Source Description
0.1	0.1		PLS	12/31/1940	SW

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 WATER RIGHT  
SUMMARY



# New Mexico Office of the State Engineer



## Water Right Summary

**WR File Number:** RA 08556      **Subbasin:** RA      **Cross Reference:** -  
**Primary Purpose:** COM    COMMERCIAL  
**Primary Status:** DCL    DECLARATION  
**Total Acres:** 0      **Subfile:** -      **Header:** -  
**Total Diversion:** 280.66      **Cause/Case:** -  
**Owner:** JEROME JOSEPH DENKEVITZ REVOCABLE LIVING TRU

### Documents on File

Trn #	Doc	File/Act	Status			Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2						
<a href="#">415228</a>	<a href="#">COWNF</a>	<a href="#">2008-09-18</a>	CHG	PRC		RA 08556	T	0	0	
<a href="#">209085</a>	<a href="#">DCL</a>	<a href="#">1994-10-27</a>	DCL	PRC		RA 08556	T	0	280.66	

### Current Points of Diversion

Point Points of Diversion											
(NAD83 UTM in meters)											
POD Number	Well Tag	Source	Q					X	Y	Other Location Desc	
			64	Q16	Q4	Sec	Tws				Rng
<a href="#">RA 08556</a>		Shallow	2	1	1	09	08S	27E	573900	3722599*	
<a href="#">RA 08556 S</a>			2	1	1	09	08S	27E	573900	3722599*	

\*An (\*) after northing value indicates UTM location was derived from PLSS - see Help

### Priority Summary

Priority	Status	Acres	Diversion	Pod Number	
12/31/1960	DCL	0	280.66	<a href="#">RA 08556</a>	Shallow
				<a href="#">RA 08556 S</a>	

### Place of Use

Q	Q				Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
256	64	Q16	Q4	Sec							
	3	04	08S	27E	0	280.66		COM		DCL	

### Source

Acres	Diversion	CU	Use	Priority	Source Description
0	280.66		COM	01/31/1960	GW SHALLOW

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WATER RIGHT  
SUMMARY



# New Mexico Office of the State Engineer

## Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)						(R=POD has been replaced and no longer serves this file, C=the file is closed)			(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)				(NAD83 UTM in meters)				
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 64 3 3 3	q 4 04	q 2 08S	q 1 27E	X	Y	Distance
<a href="#">RA 08554</a>	RA	DOM	0	STRALEY BROTHERS INC	CH	<a href="#">RA 08554</a>									573698	3722802*	508
<a href="#">RA 11697</a>	RA		0	US ARMY CORPS OF ENGINEERS	CH	<a href="#">RA 11697 POD1</a>					2	1	1	09	573915	3722682	582
<a href="#">LWD 03231</a>	RA	PLS	0.1	STRALEY BROS INC	CH	<a href="#">LWD 03231 POD1</a>					1	1	4	04	574500	3723412*	609
<a href="#">RA 11696</a>	RA	MON	0	US ARMY CORPS OF ENGINEERS	CH	<a href="#">RA 11696 POD1</a>					2	1	1	09	573938	3722600	664
<a href="#">RA 08112</a>	RA	STK	3	DONALDSON SAM A	LI	<a href="#">RA 08112</a>				Shallow	2	1	1	09	573900	3722599*	666
<a href="#">RA 08212</a>	RA	STK	3	JIM K. MILLER	CH	<a href="#">RA 08212</a>					2	1	1	09	573900	3722599*	666
<a href="#">RA 08283</a>	RA	STK	3	STRALEY BROS., INC.	CH	<a href="#">RA 08283</a>					2	1	1	09	573900	3722599*	666
<a href="#">RA 08284</a>	RA	STK	3	STRANLEY BROS., INC.	CH	<a href="#">RA 08284</a>					2	1	1	09	573900	3722599*	666
<a href="#">RA 08556</a>	RA	COM	280.66	JEROME JOSEPH DENKEVITZ REVOCABLE LIVING TRU	CH	<a href="#">RA 08556</a>				Shallow	2	1	1	09	573900	3722599*	666
					CH	<a href="#">RA 08556 S</a>					2	1	1	09	573900	3722599*	666
<a href="#">RA 11698</a>	RA		0	US ARMY CORPS OF ENGINEERS	CH	<a href="#">RA 11698 POD1</a>					2	1	1	09	573819	3722600	670
<a href="#">RA 09960</a>	RA	DOM	3	MATHIS LAND AND CATTLE INC.	CH	<a href="#">RA 09960</a>					4	2	05	08S	573393	3723707*	678
<a href="#">RA 00960</a>	RA	IRR	281.05	DAVID HINCKLEY	CH	<a href="#">RA 10050</a>				Shallow	2	2	2	08	573498	3722597*	783
<a href="#">RA 10050</a>	RA	STK	3	MATHIS LAND AND CATTLE INC.	CH	<a href="#">RA 10050</a>				Shallow	2	2	2	08	573498	3722597*	783
<a href="#">RA 08281</a>	RA	STK	3	STRANLEY BROS., INC.	CH	<a href="#">RA 08281</a>					4	4	04	08S	575005	3722914*	1151
<a href="#">RA 08279</a>	RA	STK	3	MATHIS LAND AND CATTLE	CH	<a href="#">RA 08279</a>					4	4	32	07S	573387	3724509*	1348
<a href="#">RA 08555</a>	RA	DOM	3	MATHIS LAND AND CATTLE INC.	CH	<a href="#">RA 08555</a>				Shallow	4	2	1	05	572685	3724003*	1428
<a href="#">RA 13142</a>	RA	STK	3	MATHIS LAND & CATTLE INC	CH	<a href="#">RA 13142 POD1</a>	2109A				3	3	2	08	572822	3721912	1734
<a href="#">RA 08278</a>	RA	STK	3	MATHIS LAND AND CATTLE	CH	<a href="#">RA 08278</a>					3	08	08S	27E	572401	3721482*	2334
<a href="#">RA 08277</a>	RA	STK	3	MATHIS LAND AND CATTLE	CH	<a href="#">RA 08277</a>					3	3	3	29	572070	3726017*	3309
<a href="#">RA 08211</a>	RA	STK	3	JIM K. MILLER	CH	<a href="#">RA 08211</a>					2	1	3	35	577105	3725039*	3656
<a href="#">LWD 03230</a>	RA	PLS	0.1	STRALEY BROS INC	CH	<a href="#">LWD 03230 POD1</a>					3	1	4	18	571300	3719966*	4205
<a href="#">RA 13051</a>	RA	EXP	0	BUREAU OF LAND MANAGEMENT	CH	<a href="#">RA 13051 POD1</a>	NA			Shallow	1	4	4	12	570102	3721365	4253
<a href="#">RA 08280</a>	RA	STK	3	MATHIS LAND AND CATTLE	CH	<a href="#">RA 08280</a>					2	2	4	20	573512	3718567*	4714
<a href="#">RA 11365</a>	RA	STK	0	MILLER LAND AND CATTLE COMPANY	CH	<a href="#">RA 11365 POD1</a>					1	2	2	35	578034	3725845	4866

Record Count: 25

## UTMNAD83 Radius Search (in meters):

Easting (X): 573908

Northing (Y): 3723265

Radius: 5000

Sorted by: Distance

\*UTM location was derived from PLSS - see Help

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ACTIVE &amp; INACTIVE POINTS OF DIVERSION



# New Mexico Office of the State Engineer

## Water Right Summary

**WR File Number:** RA 08212      **Subbasin:** RA      **Cross Reference:** -  
**Primary Purpose:** STK      72-12-1 LIVESTOCK WATERING  
**Primary Status:** DCL      DECLARATION  
**Total Acres:** 0      **Subfile:** -      **Header:** -  
**Total Diversion:** 3      **Cause/Case:** -  
**Owner:** JIM K. MILLER

x

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
<a href="#">292751</a>	<a href="#">DCL</a>	<a href="#">1993-05-18</a>	DCL	PRC	RA 08212	T	0	3	

x

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64Q16Q4Sec	Tws	Rng	X	Y	Other Location Desc
<a href="#">RA 08212</a>			2	1	1	09 08S 27E	573900	3722599*	

\*An (\*) after northing value indicates UTM location was derived from PLSS - see Help

x

### Priority Summary

Priority	Status	Acres	Diversion	Pod Number
05/13/1982	DCL	0	3	<a href="#">RA 08212</a>

x

### Place of Use

Q	Q	256	64	Q16	Q4Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
											STK		DCL	NO PLACE OF USE GIVEN

x

### Source

Acres	Diversion	CU	Use	Priority	Source	Description
0	3		STK	05/13/1982	GW	SHALLOW

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WATER RIGHT  
SUMMARY





# New Mexico Office of the State Engineer

## Water Right Summary

**WR File Number:** RA 08283      **Subbasin:** RA      **Cross Reference:** -  
**Primary Purpose:** STK    72-12-1 LIVESTOCK WATERING  
**Primary Status:** DCL    DECLARATION  
**Total Acres:** 0      **Subfile:** -      **Header:** -  
**Total Diversion:** 3      **Cause/Case:** -  
**Owner:** STRALEY BROS., INC.

x

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
<a href="#">245747</a>	<a href="#">DCL</a>	<a href="#">1992-04-23</a>	DCL	PRC	RA 08283	T	0	3	

x

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64Q16Q4Sec	Tws	Rng	X	Y	Other Location Desc
<a href="#">RA 08283</a>			2	1	1	09 08S 27E	573900	3722599*	

\*An (\*) after northing value indicates UTM location was derived from PLSS - see Help

x

### Priority Summary

Priority	Status	Acres	Diversion	Pod Number
12/31/1956	DCL	0	3	<a href="#">RA 08283</a>

x

### Place of Use

Q	Q	256	64 Q16 Q4Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
									STK		DCL	NO PLACE OF USE GIVENN

x

### Source

Acres	Diversion	CU	Use	Priority	Source	Description
0	3		STK	12/31/1956	GW	SHALLOW

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WATER RIGHT  
SUMMARY



# New Mexico Office of the State Engineer

## Water Right Summary

**WR File Number:** RA 08554      **Subbasin:** RA      **Cross Reference:** -  
**Primary Purpose:** DOM 72-12-1 DOMESTIC ONE HOUSEHOLD  
**Primary Status:** EXP EXPIRED  
**Total Acres:**      **Subfile:** -      **Header:** -  
**Total Diversion:** 0      **Cause/Case:** -  
**Owner:** STRALEY BROTHERS INC

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
<a href="#">243548</a>	<a href="#">72121</a>	<a href="#">1993-07-26</a>	EXP	EXP	RA 08554	T		3	

### Current Points of Diversion

POD Number	Well Tag	Source	Q			(NAD83 UTM in meters)			Other Location Desc		
			64	Q16	Q4	Sec	Tws	Rng		X	Y
<a href="#">RA 08554</a>			3	3	3	04	08S	27E	573698	3722802*	

\*An (\*) after northing value indicates UTM location was derived from PLSS - see Help

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WATER RIGHT SUMMARY



# New Mexico Office of the State Engineer

## Water Right Summary


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**WR File Number:** RA 09960**Subbasin:** RA**Cross Reference:** -**Primary Purpose:** DOM 72-12-1 DOMESTIC ONE HOUSEHOLD**Primary Status:** PMT PERMIT**Total Acres:****Subfile:** -**Header:** -**Total Diversion:** 3**Cause/Case:** -**Agent:** MATHIS LAND AND CATTLE INC.**Contact:** GERALD D. MATHIS

### Documents on File


[get images](#)

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
<a href="#">531734</a>	<a href="#">COWNF</a>	<a href="#">2013-08-02</a>	CHG	PRC	RA 09960	T		0	
<a href="#">189733</a>	<a href="#">72121</a>	<a href="#">2000-09-01</a>	PMT	APR	RA 09960	T		3	

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64Q16Q4Sec	Tw	Rng	X	Y	Other Location Desc
<a href="#">RA 09960</a>			4	2	05	08S 27E	573393	3723707*	

\*An (\*) after northing value indicates UTM location was derived from PLSS - see Help

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WATER RIGHT SUMMARY



# New Mexico Office of the State Engineer

## Water Right Summary


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**WR File Number:** RA 00960      **Subbasin:** RA      **Cross Reference:** -  
**Primary Purpose:** IRR      IRRIGATION  
**Primary Status:** PMT      PERMIT  
**Total Acres:** 80.3      **Subfile:** 138      **Header:** -  
**Total Diversion:** 281.05      **Cause/Case:** -  
**Owner:** DAVID HINCKLEY

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
<a href="#">297057</a>	<a href="#">COMB</a>	<a href="#">2006-01-19</a>	PMT	APR	RA 00701	F	0	0	
<a href="#">336415</a>	<a href="#">72121</a>	<a href="#">2005-07-11</a>	PMT	APR	RA 00960 & RA00961 COMB-E	T		3	
<a href="#">320296</a>	<a href="#">72121</a>	<a href="#">2005-01-06</a>	PMT	APR	RA 00960 & RA 00961 COMB E	T		3	
<a href="#">255739</a>	<a href="#">CLWPL</a>	<a href="#">2003-05-16</a>	PMT	APR	RA-701 INTO RA-960(T)	T	10	35	
<a href="#">233323</a>	<a href="#">CLWPL</a>	<a href="#">2002-06-24</a>	PMT	APR	RA-701 INTO RA-960	T	66.2	231.7	
<a href="#">176529</a>	<a href="#">ADM</a>	<a href="#">1996-11-01</a>	PMT	APR	RA 00960	T	80.3	281.05	

### Current Points of Diversion

POD Number	Well Tag	Source	Q				(NAD83 UTM in meters)		Other Location Desc
			64	Q16	Q4	Sec	Tws	Rng	
<a href="#">RA 00960</a>		Artesian	2	3	1	07	11S	21E	510980 3692761*
<a href="#">RA 10050</a>		Shallow	2	2	2	08	08S	27E	573498 3722597*

\*An (\*) after northing value indicates UTM location was derived from PLSS - see Help

### Priority Summary

Priority	Status	Acres	Diversion	Pod Number	
12/31/1906	PMT	7.3	25.55	<a href="#">RA 00960</a>	Artesian
				<a href="#">RA 10050</a>	Shallow
12/31/1912	PMT	28	98	<a href="#">RA 00960</a>	Artesian
				<a href="#">RA 10050</a>	Shallow
12/31/1924	ADJ	45	157.5	<a href="#">RA 00960</a>	Artesian
				<a href="#">RA 10050</a>	Shallow

### Place of Use

Q	Q			Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
256	64	Q16	Q4							
		23	12S	25E	5		IND	06/17/1906	PMT	
		23	12S	25E	61.2		IRR	03/31/1909	PMT	
		23	12S	25E	10		IRR	06/17/1906	PMT	
		23	12S	26E	35.3		IRR	03/31/1906	PMT	3/31/1912
		3	16	10S	24E	45	IRR	12/31/1924	PMT	

### Source

Acres	Diversion	CU	Use	Priority	Source	Description
7.3	21.33		IRR	03/31/1906	GW	ARTESIAN
0	124		HWY	12/31/1924	GW	
28	84		IRR	12/31/1912	GW	ARTESIAN
45	135		IRR	12/31/1924	GW	ARTESIAN
10	35		IRR	06/17/1906	GW	
20	70		IRR	06/17/1906	GW	
61.2	214.2		IND	03/31/1909	GW	

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WATER RIGHT  
SUMMARY



# New Mexico Office of the State Engineer

## Water Right Summary


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**WR File Number:** RA 10050      **Subbasin:** RA      **Cross Reference:** -  
**Primary Purpose:** STK      72-12-1 LIVESTOCK WATERING  
**Primary Status:** PMT      PERMIT  
**Total Acres:**      **Subfile:** -      **Header:** -  
**Total Diversion:** 3      **Cause/Case:** -  
**Agent:** MATHIS LAND AND CATTLE INC.  
**Contact:** GERALD D. MATHIS

### Documents on File

	Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
				1	2					
<a href="#">get images</a>	531725	COWNF	2013-08-02	CHG	PRC	RA 10050	T		0	
<a href="#">get images</a>	238962	72121	2002-08-22	PMT	APR	RA 10050	T		3	
	239348	COWNF	2002-08-21	CHG	PRC	RA 10050	T		0	
	249093	CLWPU	2001-05-22	PMT	APR	RA-960 & RA-961-COMB-D INTO	T	0	24.8	
	209778	EXPL	2001-05-17	PMT	LOG	RA 10050	T	0	0	

### Current Points of Diversion

POD Number	Well Tag	Source	Q					(NAD83 UTM in meters)		Other Location Desc
			64Q16Q4	Sec	Tw	Rng		X	Y	
<a href="#">RA 10050</a>		Shallow	2	2	2	08 08S 27E		573498	3722597*	

\*An (\*) after northing value indicates UTM location was derived from PLSS - see Help

### Source

Acres	Diversion	CU	Use	Priority	Source Description
0	0		EXP		GW
0	24.8		HWY	12/31/1924	GW ARTESIAN

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WATER RIGHT SUMMARY





## Avalanche Wetland 8365ft



February 3, 2022

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

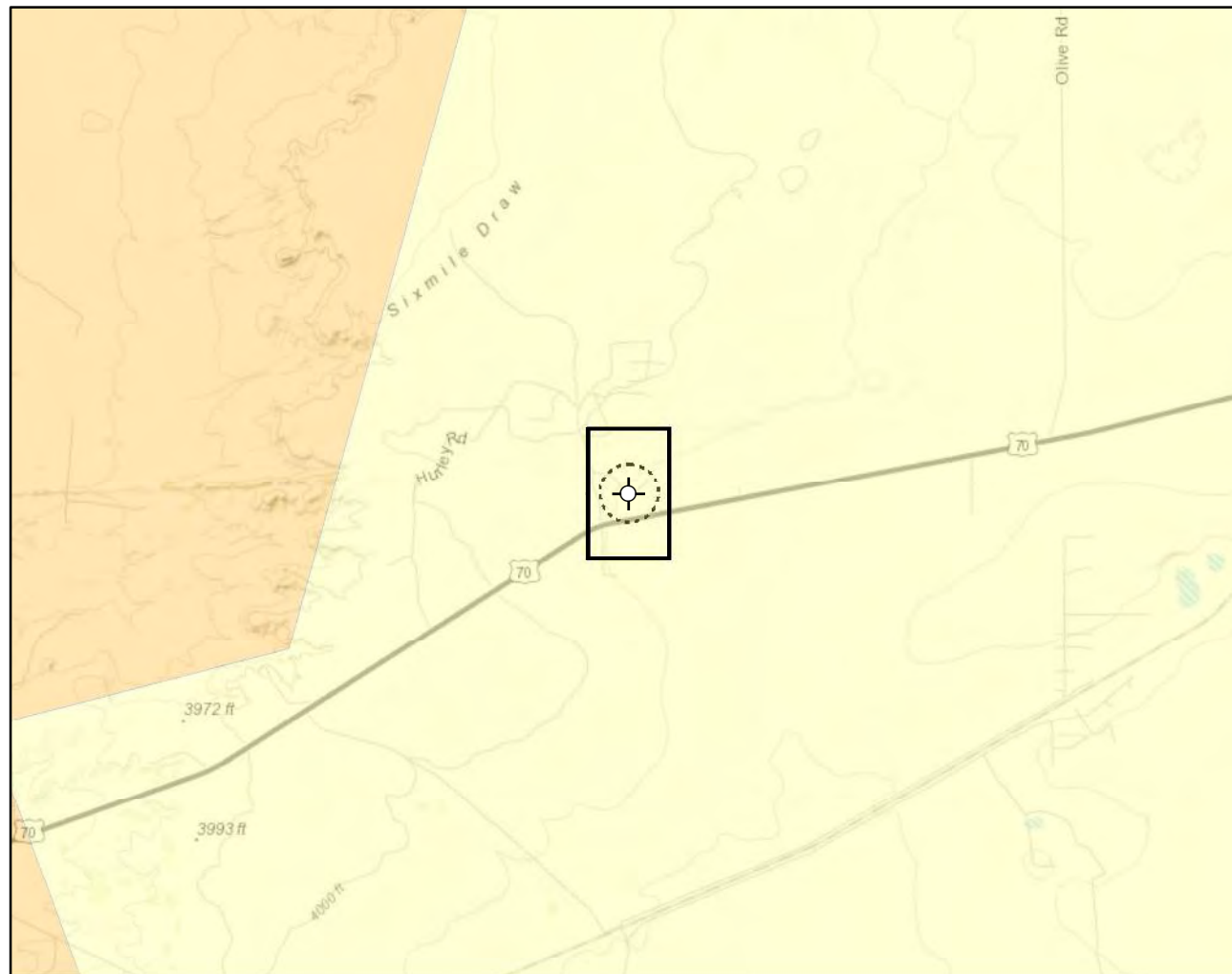
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



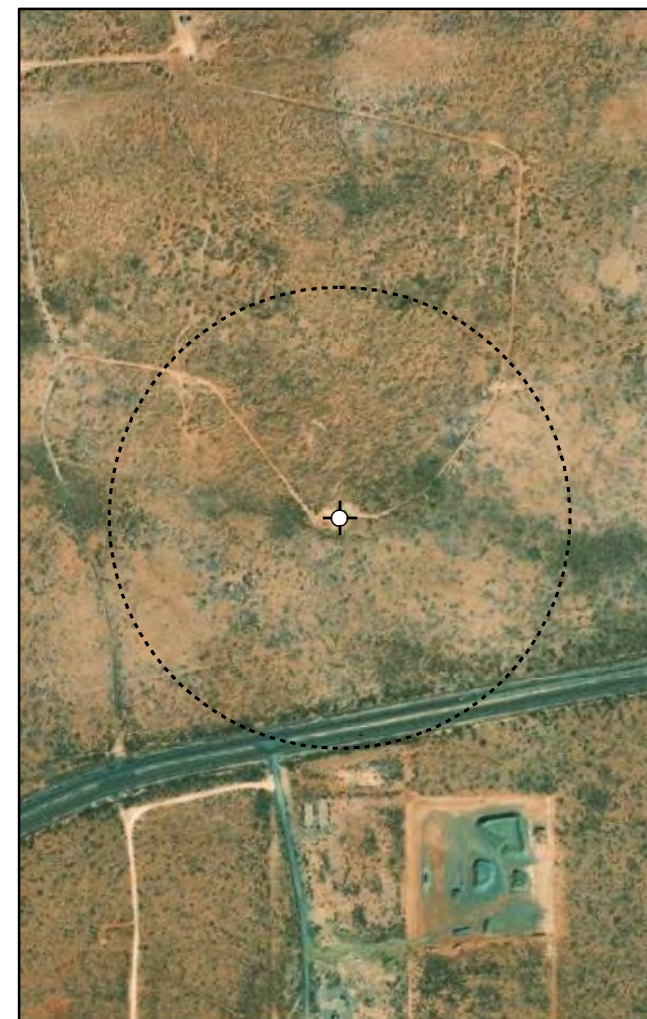


**Karst Potential**

- Critical
  - High
  - Medium
  - Low
- Site Location
  - Site Buffer (1,000 ft.)

**Overview Map**

0 0.25 0.5 1 mi

**Detail Map**

0 150 300 600 ft.



Map Center:  
Lat/Long: 33.646670, -104.203000

NAD 1983 UTM Zone 13N  
Date: Feb 23/22



## Karst Potential Map Avalanche Journal Battery

FIGURE:

**X**

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: Inset Map, ESRI 2021; Overview Map: ESRI World Topographic. Karst potential from Roswell Field Office, 2022.

VERSATILITY. EXPERTISE.

# National Flood Hazard Layer FIRMette



104°12'29"W 33°39'3"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000 104°11'52"W 33°38'33"N

Released to Imaging: 6/21/2022 4:27:12 PM

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
		NO SCREEN Area of Minimal Flood Hazard Zone X
OTHER AREAS		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **2/3/2022 at 2:26 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.





United States  
Department of  
Agriculture

**NRCS**

Natural  
Resources  
Conservation  
Service

A product of the National  
Cooperative Soil Survey,  
a joint effort of the United  
States Department of  
Agriculture and other  
Federal agencies, State  
agencies including the  
Agricultural Experiment  
Stations, and local  
participants

# Custom Soil Resource Report for **Chaves County, New Mexico, Northern Part**



February 3, 2022

# Preface

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Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist ([http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2\\_053951](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951)).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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## How Soil Surveys Are Made

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Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

## Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

## Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

## Soil Map

---

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.


# Custom Soil Resource Report Soil Map



## Custom Soil Resource Report

## MAP LEGEND

## Area of Interest (AOI)

 Area of Interest (AOI)


## Soils


 Soil Map Unit Polygons


 Soil Map Unit Lines


 Soil Map Unit Points

## Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water


 Perennial Water

 Rock Outcrop


 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole

 Slide or Slip


 Sodic Spot

 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

## Water Features

 Streams and Canals

## Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

## Background

 Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Chaves County, New Mexico, Northern Part  
Survey Area Data: Version 17, Sep 12, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 20, 2017—Dec 9, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

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## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RBA	Ratliff-Redona association, gently undulating	0.8	100.0%
<b>Totals for Area of Interest</b>		<b>0.8</b>	<b>100.0%</b>

## Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.



## Custom Soil Resource Report

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

## Custom Soil Resource Report

**Chaves County, New Mexico, Northern Part****RBA—Ratliff-Redona association, gently undulating****Map Unit Setting**

*National map unit symbol:* dm1g  
*Elevation:* 2,500 to 5,300 feet  
*Mean annual precipitation:* 10 to 17 inches  
*Mean annual air temperature:* 55 to 72 degrees F  
*Frost-free period:* 180 to 240 days  
*Farmland classification:* Not prime farmland

**Map Unit Composition**

*Ratliff and similar soils:* 45 percent  
*Redona and similar soils:* 35 percent  
*Minor components:* 20 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

**Description of Ratliff****Setting**

*Landform:* Terraces  
*Landform position (two-dimensional):* Footslope, toeslope  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Calcareous alluvium

**Typical profile**

*H1 - 0 to 6 inches:* fine sandy loam  
*H2 - 6 to 25 inches:* sandy clay loam  
*H3 - 25 to 60 inches:* clay loam

**Properties and qualities**

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high  
 (0.60 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 50 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Available water supply, 0 to 60 inches:* Moderate (about 8.2 inches)

**Interpretive groups**

*Land capability classification (irrigated):* 3e  
*Land capability classification (nonirrigated):* 4e  
*Hydrologic Soil Group:* B  
*Ecological site:* R070BY670TX - Sandy Loam 12-18" PZ  
*Hydric soil rating:* No

## Custom Soil Resource Report

**Description of Redona****Setting**

*Landform:* Terraces  
*Landform position (two-dimensional):* Toeslope  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Calcareous alluvium

**Typical profile**

*H1 - 0 to 12 inches:* fine sandy loam  
*H2 - 12 to 29 inches:* sandy clay loam  
*H3 - 29 to 60 inches:* sandy clay loam

**Properties and qualities**

*Slope:* 0 to 1 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Negligible  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 30 percent  
*Gypsum, maximum content:* 1 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Sodium adsorption ratio, maximum:* 4.0  
*Available water supply, 0 to 60 inches:* High (about 10.2 inches)

**Interpretive groups**

*Land capability classification (irrigated):* 2e  
*Land capability classification (nonirrigated):* 6e  
*Hydrologic Soil Group:* B  
*Ecological site:* R070BY670TX - Sandy Loam 12-18" PZ  
*Hydric soil rating:* No

**Minor Components****Blakeney**

*Percent of map unit:* 7 percent  
*Ecological site:* R070BY062NM - Shallow  
*Hydric soil rating:* No

**Canez**

*Percent of map unit:* 6 percent  
*Ecological site:* R070BY670TX - Sandy Loam 12-18" PZ  
*Hydric soil rating:* No

**Tucumcari**

*Percent of map unit:* 6 percent  
*Ecological site:* R070BY662TX - Clayey 12-18" PZ  
*Hydric soil rating:* No

**Playa**

*Percent of map unit:* 1 percent

Custom Soil Resource Report

*Landform:* Playas

*Landform position (three-dimensional):* Dip

*Down-slope shape:* Concave

*Across-slope shape:* Concave

*Ecological site:* R077CY027TX - Playa 16-21" PZ

*Hydric soil rating:* Yes



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## Ecological site R070BY670TX Sandy Loam 12-18" PZ

Accessed: 02/03/2022

### General information

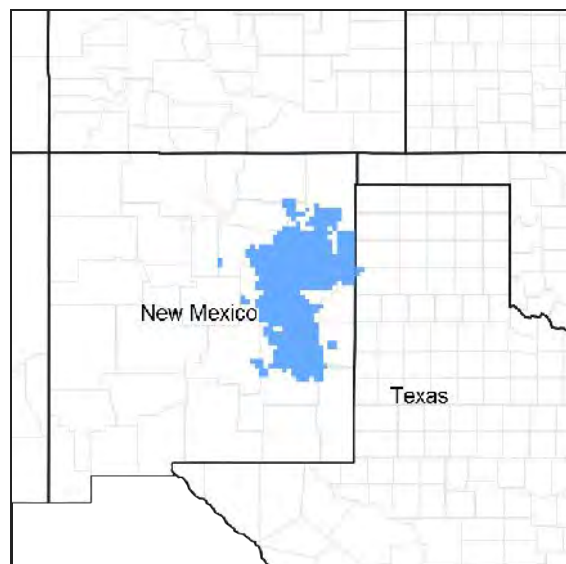


Figure 1. Mapped extent

Areas shown in blue indicate the maximum mapped extent of this ecological site. Other ecological sites likely occur within the highlighted areas. It is also possible for this ecological site to occur outside of highlighted areas if detailed soil survey has not been completed or recently updated.

### MLRA notes

Major Land Resource Area (MLRA): 070B—Upper Pecos River Valley

MLRA 70B is characterized by broad, rolling piedmonts, plains, and tablelands broken by drainageways and tributaries of the Pecos River. Native vegetation is mid- to short-grass prairie species in the lowlands, with pinyon and juniper in the higher elevations and on steeper north-facing slopes. Current land use is predominantly livestock grazing. The soils formed in material weathered from sedimentary rocks of Cretaceous age.

### Classification relationships

This site was formerly known as Sandy Loam R070XB054NM in New Mexico.

### Associated sites

R070BY662TX	<b>Clayey 12-18" PZ</b> Clayey soils with tobosagrass and cholla.
R070BY663TX	<b>Clay Loam 12-18" PZ</b> Loamy soils with shortgrasses dominating the site.

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified

Herbaceous	Not specified
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## Physiographic features

The Sandy Loam site occurs on alluvial/colluvial fan terraces and hillslopes. Land surfaces vary from slightly convex to slightly concave. Due to the nature of this site these fans and footslopes generate runoff received by lower positioned sites. This generally depends on the amount of vegetative cover and intensity of precipitation events. Grazing accessibility for livestock and wildlife is good.

**Table 2. Representative physiographic features**

Landforms	(1) Hill (2) Plain (3) Terrace
Flooding frequency	None
Ponding frequency	None
Elevation	3,400–4,500 ft
Slope	0–10%
Water table depth	60 in
Aspect	Aspect is not a significant factor

## Climatic features

The climate of this area can be classified as “semi-arid continental”. Summers are hot with winters being generally mild with numerous cold fronts that drop temperatures into the single digits for 24 to 48 hours. Temperature extremes are the rule rather than the exception. Humidity is generally low and evaporation high. Wind speeds are highest in the spring and are generally southwesterly. Canadian and Pacific cold fronts come through the region in fall, winter and spring with predictability and temperature changes can be rapid.

Total annual precipitation averages 12 to 18 inches. Most of the precipitation comes in the form of rain during the period from May through October. Snowfall averages around 15 inches but may be as little as 8 inches or as much as 36 inches. Rainfall in the growing season often comes as intense showers of relatively short duration. Long term droughts occur on the average of once every 20 years and may last as long as five to six years (during these drought years moisture during the growing season is from 50 to 60 % of the mean). Based on long term records, approximately 60% of years are below the mean rainfall and approximately 40% are above the mean. May, June and July are the main growth months for perennial warm season grasses. Forbs make their growth somewhat earlier. Air temperatures vary from a monthly mean of 22 degrees F in January to 64 degrees F in July. Daily high temperatures average in the 80's and low 90's during the summer months. Winter low temperatures fall below the freezing mark much of the time from November through March. Dates of the last killing frost may vary from April 15 to April 25 , and the first killing frost from October 18 to October 25. Wind velocities for the area average 10 to 12 miles per hour and prevail from the south and southwest. Generally, March is the windiest month. Strong winds during the spring cause rapid drying of the soil surface.

**Table 3. Representative climatic features**

Frost-free period (average)	200 days
Freeze-free period (average)	205 days
Precipitation total (average)	18 in

## Influencing water features

None.



## Soil features

These are deep to very deep fine sandy loam soils that are derived from the red bed formation of the late Triassic age sandstone and shale. Parent material is calcareous alluvial and eolian sediments. Slopes dominantly range from 0 to 10 percent. Some of these soils have argillic horizons of sandy clay loam texture. They are moderate in fertility, have a low to moderate water storage capacity, have a moderate infiltration rate, and exhibit negligible to low runoff depending on slope and vegetative cover. These soils yield water to plants readily and are subject to wind erosion without good cover. If cover is poor and runoff is excessive, significant water erosion can also occur. Plant roots easily penetrate the soil.

Major Soil Taxonomic Units correlated to this site include: Ima fine sandy loam and Redona fine sandy loam.

**Table 4. Representative soil features**

Parent material	(1) Alluvium—sandstone and shale
Surface texture	(1) Fine sandy loam (2) Sandy loam
Family particle size	(1) Loamy
Drainage class	Well drained
Permeability class	Moderate
Surface fragment cover <=3"	0–10%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	3–7 in
Calcium carbonate equivalent (0-40in)	0–5%
Electrical conductivity (0-40in)	0–1 mmhos/cm
Sodium adsorption ratio (0-40in)	0–1
Soil reaction (1:1 water) (0-40in)	7.4–8.4
Subsurface fragment volume <=3" (Depth not specified)	0–15%
Subsurface fragment volume >3" (Depth not specified)	0%

## Ecological dynamics

This is an upland grassland site occurring on nearly level to moderately sloping topography. The Historic Climax Plant Community (HCPC) is best characterized as warm-season midgrasses with somewhat lesser amounts of shortgrass species and scattered short shrubs. Tallgrasses occur but are somewhat infrequent, and are found in micro environments that receive extra runoff. Perennial and annual forbs make up from 5 to 10% of total annual production, depending upon precipitation. Shrubs account for approximately 5 to 8% of total annual production, with some variation in species often occurring from one locality to another. Production levels are moderate to moderately high and accessibility for grazing and browsing animals is good. Bunch grasses are most prevalent with lesser amounts of sod forming species. Inherent fertility is moderate and the site is favored by domestic livestock. Diversity is high in historic climax but will decrease with long-term grazing pressure. This site is fairly extensive within the MLRA and may encompass both large and small acreages depending on location.

The HCPC grassland community consists predominantly of sideoats grama (*Bouteloua curtipendula*), blue grama (*Bouteloua gracilis*), and black grama (*Bouteloua eriopoda*), with smaller amounts of vine mesquite (*Panicum obtusum*), wolftail (*Lycurus phleoides*), galleta (*Pleuraphis jamesii*), fall witchgrass (*Digitaria cognata*), sand dropseed (*Sporobolus cryptandrus*), halls panicum (*Panicum hallii*), plains bristlegass (*Setaria leucopila*), perennial

threeawn (*Aristida* spp.), hairy grama (*Bouteloua hirsuta*), gummy lovegrass (*Eragrostis curtisii*) and sand muhly (*Muhlenbergia arenicola*). A few cool-season species such as needle and thread (*Hesperostipa comata*), Canada wildrye (*Elymus canadensis*), and bottlebrush squirreltail (*Sitanion hystrix*) will be found and are most prevalent in years when winter moisture is above normal. Small amounts of little bluestem (*Schizachyrium scoparium*) occur in inclusions of shallow sandy loams or in areas where slightly sandier textures occur. Sand bluestem (*Andropogon hallii*) and Indiangrass (*Sorghastrum nutans*) will be found in micro environments within the site where moisture is more favorable. Tallgrasses generally do not make up more than 5 to 10 % of the total plant community. Some of the more prevalent forb species are: scarlet globemallow (*Sphaeralcea coccinea*), rushpea (*Hoffmannseggia jamesii*), catclaw sensitivebrier (*Mimosa roemeriana*), dotted gayfeather (*Liatis punctata*), sand lily (*Mentzelia nuda*), western ragweed (*Ambrosia psilostachya*), trailing ratany (*Krameria* sp.), lyreleaf greeneyes (*Berlandiera larata*), plains zinnia (*Zinnia grandiflora*), wild alfalfa (*Psoralea tenuiflorum*), scarlet gaura (*Gaura coccinea*), and croton (*Croton* spp.). Forb production tends to be very moisture dependent and can vary considerably from year to year. The suffrutescent halfshrub broom snakeweed (*Gutierrezia sarothrae*) is found in small amounts and can sometimes increase with abusive grazing. Woody short shrub species most commonly found are sand sagebrush (*Artemisia filifolia*), yucca (*Yucca glauca*), Mormon's tea (*Ephedra antisyphilitica*), and winterfat (*Krascheninnikovia lanata*). Mesquite (*Prosopis glandulosa*), cholla (*Cylindropuntia imbricata*), and pricklypear (*Opuntia macrorhiza*) are found in small amounts. Shrubs tend to be scattered in HCPC, but yucca, mesquite and sand sagebrush can increase with abusive grazing practices and no natural fire.

General observations would suggest that blue grama, black grama and lesser amounts of other short grass species are now dominating many of the sandy loam sites in this MLRA. In many cases, there are only small amounts of sideoats grama present - and that species was almost certainly present in greater amounts in HCPC, especially on the sandy loams that have a coarse loamy classification. The tighter sandy loams (fine loamy classification) tend to produce somewhat more blue grama and less sideoats grama. Continuous moderate grazing will usually result in an increase in blue and black grama over time, and a decrease in sideoats grama. Prolonged abusive grazing practices will nearly always result in a significant increase in perennial threeawn, sand dropseed, hairy grama, sand muhly, gummy lovegrass, and annual forbs. Sand sagebrush and yucca are both increasers on this site. Yucca can sometimes increase to a moderate plant population (greater than 1000 crowns per acre), but the sand sagebrush does not usually form a dense canopy. If a seed source is available, mesquite can also invade the site. The sandy loam ecological site appears to be somewhat less resistant to grazing induced changes in plant community than the associated clay loam or loamy sites. The plant community can shift to a short grass dominated site with very few mid grasses if heavy grazing pressure is applied over several years. The shorter grass species such as blue grama, buffalograss (*Bouteloua dactyloides*) and even black grama are more resistant to grazing pressure. After many years of continuous heavy grazing, sideoats grama will still be found in the community, but will retreat to the protection of clumps of yucca, sand sagebrush or other short shrubs. With good grazing management practices, selective brush management, and growing season rest, the balance between mid and shortgrasses can often be restored, but it will usually take a few years to do so. The more dominant the shortgrass species become, the more difficult it is to restore the community balance. Some above average precipitation in conjunction with prescribed grazing speeds this process a great deal. Careful grazing management techniques are essential to maintain the diversity and productivity of the HCPC.

All the sites in this MLRA were historically grazed/ browsed by bison, elk, pronghorn, and mule deer (along with numerous small herbivores such as prairie dogs, rabbits, ground squirrels, etc.) in pre settlement times. The habits of the larger herbivores were semi migratory and after grazing an area they moved on to other localities where grazing resources were more attractive. Grazed areas received rest naturally and generally the recovery periods following grazing were adequate for vegetation to regain vigor and replenish reserves. The same locations might not have been grazed again for several months, and perhaps even years, depending on rainfall patterns and animals movements. When grazing occurred, it was likely quite intense, and in some cases, the physical animal impact may have been significant; but the recovery period allowed for plant and soil resources to heal prior to being impacted again. This MLRA has always had fewer water resources than vegetative regions to the east may have had some influence on the magnitude of the large herd effect of bison on grazing resources. The huge seasonal migrations of bison required dependable water sources that could supply sufficient water for large numbers of animals and be reached within a day or two. The dryer western parts of the plains in which this MLRA resides do not have nearly as many water sources as do the Texas Rolling Plains located to the east of the Llano Estacado. However, the grasslands in this MLRA did develop under an ecology that included native grazing animals as an integral part of the processes. With settlement of the area, the development of the ranching industry, and especially the advent of barbed wire, the confinement of domestic livestock on smaller areas has had great effect on plant communities. Free ranging animals that moved at will depending on locally available forage provided a graze/rest cycle that

allowed the natural recovery of native plants, whereas the system of more continuous grazing employed post settlement, usually does not meet the overall needs of native vegetation unless careful management practices are implemented. Also, there is considerable evidence that overstocking of the range occurred in the late 1800's and early 1900's, and, unfortunately, it still does today in some places. Much of the rangeland abuse that occurred was due to lack of knowledge of the capability of the resources.

Natural fire has also had an impact on these grasslands historically. It is accepted that natural fires occurred on the plains fairly frequently – at least every 8 to 10 years, with some areas burning even more frequently. The sites most likely to be burned were those where grass fuel was most abundant. The sandy loam site has historically produced moderate amounts of fine fuel, and its physiographic features would suggest that fire may have occurred with some regularity. The type of adjacent sites and the general topographic and vegetative attributes of those sites also had a major effect on the frequency of fire. In this MLRA, there are sites that exhibit large amounts of bare soil and rocky terrain with sparse plant cover, as well as sites that have physical barriers such as gullies, streambeds, etc. that could have limited fire movement and continuity. It is possible to say that where fire occurred with regularity, it had a major impact on maintaining grasslands and retarded the encroachment of woody shrubs and cacti in many areas. Fire also influenced the grazing habits of herbivores as they were attracted to the fresh and succulent vegetation that often resulted after a natural fire. Community diversity, especially an increase in forb species most likely resulted from a natural fire. Prescribed fire can be utilized on certain sites under proper conditions as a management tool. It can, in some instances be used to retard the proliferation of certain woody species, and can be used on coarse grasses such as alkali sacaton (*Sporobolus airoides*), giant sacaton (*Sporobolus wrightii*) or tobosagrass (*Pleuraphis mutica*) to increase palatability. It should be noted that fire followed by a series of below average rainfall years can definitely have an adverse effect on some perennial grass species. Extreme care and attention to environmental factors should always be exercised when using fire as a tool, and becomes even more important in arid and semi arid land regions.

When the ecological principles affecting plant communities are understood and when proper rangeland management practices such as prescribed grazing (rotational grazing systems based on proper rate of stocking), and selective control of invasive species are implemented, the native range can often approach the diversity and productive capacity of the historic climax plant community. Even abused ranges can recovery with time and good management.

NOTE: Rangeland Health Reference Worksheets have been posted for this site on the Texas NRCS website ([www.tx.nrcs.usda.gov](http://www.tx.nrcs.usda.gov)) in Section II of the eFOTG under (F) Ecological Site Descriptions.

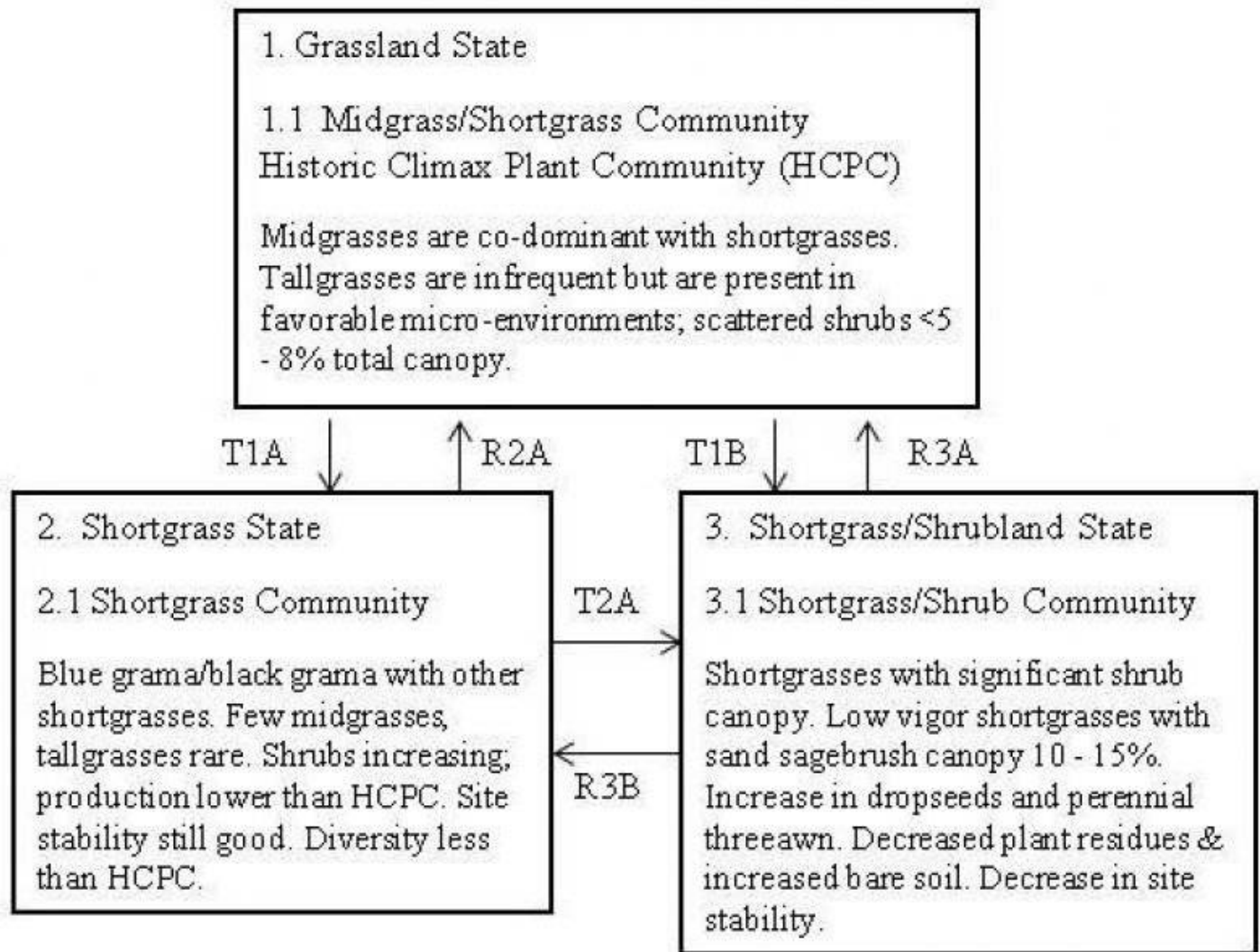
#### STATE AND TRANSITIONAL PATHWAYS: (DIAGRAM)

##### Narrative:

The following diagram suggests some pathways that the vegetation on this site might take. There may be other states not shown on the diagram. This information is intended to show what might happen in a given set of circumstances; it does not mean that this would happen the same way in every instance. Local professional guidance should always be sought before pursuing a treatment scenario.

#### State and transition model

Sandy Loam 12-18" PZ  
R070B Y670TX



LEGEND

T1A - Heavy Continuous Grazing No Fire (over 10-20 yrs)  
 R2A - Prescribed Grazing (including growing season rest), selective Brush  
 & Pest Management (>4-5 yrs)  
 T2A - Heavy Continuous Grazing No Fire, Invasion, Long Term Drought,  
 No Brush or Pest Management, No Rest Periods  
 R3A - Prescribed Grazing Growing Season Rests, selective Brush & Pest  
 Management (5-7 yrs) 1/  
 T1B - Heavy Continuous Grazing Long Term Drought, Invasion, No Brush  
 Management  
 R3B - Prescribed Grazing Brush/Pest Management (>3-4 yrs) 1/

1/ Assuming near mean average precipitation.

Figure 4.

**State 1  
Grassland State**

The Grassland State is best characterized as warm-season midgrasses with somewhat lesser amounts of



shortgrass species and scattered short shrubs. Tallgrasses occur but are somewhat infrequent, and are found in micro environments that receive extra runoff. Perennial and annual forbs make up from 5 to 10% of total annual production. Shrubs account for approximately 5 to 8% of total annual production, with some variation in species often occurring from one locality to another. Bunch grasses are most prevalent with lesser amounts of sod forming species. Annual production reaches 1750 pounds.

## Community 1.1

### Midgrass/Shortgrass Community



Figure 5. 1.1 Midgrass/Shortgrass Community

The Midgrass/Shortgrass Community (1.1) is the interpretive plant community for the Sandy Loam Ecological Site. Sideoats grama makes up approximately 15 to 25% of the total production and blue grama and black grama makes up approximately 30 to 45%. Other short and midgrasses account for approximately 20-25% while forbs make up approximately 8-10%. Shrubs make up from 5 to 10% of total production. Production is moderately high compared to other sites in the MLRA, and in general averages from 1000 to 1500 lbs. per acre dry weight. The production shown in this photo is probably on the upper end of the range for this site.

With no natural fire and long-term grazing pressure, this site will move toward a shortgrass dominated community with an increase in shrubs such as yucca, sand sage or mesquite. This photo depicts the presence of scattered amounts of yucca and only occasional mesquite. In presettlement times shrubs were probably even less than this photo shows, however, this example is very close to what HCPC was according to the best information obtainable. Yucca seems to be a strong increaser on this site. Periodic fire probably suppressed yucca as well as other woody plants in HCPC. This site is not as resistant to grazing induced changes as the Hardland sites are. Blue grama will definitely increase with long-term grazing pressure, diversity will decrease and production will be lowered.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	870	1195	1520
Forb	70	100	130
Shrub/Vine	50	75	85
Microbiotic Crusts	10	15	15
Tree	0	0	1
<b>Total</b>	<b>1000</b>	<b>1385</b>	<b>1751</b>

Figure 7. Plant community growth curve (percent production by month). TX0256, Midgrass/Shortgrass Community. Warm-season mid and shortgrasses with scattered shrubs..

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2	5	9	21	26	8	5	10	8	4	1

## State 2

### Shortgrass State

There has been a decrease in midgrasses, an increase in both blue and black grama production and some minor increases in the shrub component (mainly mesquite and sand sagebrush). The amount of perennial forbs has decreased somewhat from the HCPC but that may be due to moisture fluctuations more than grazing management. The production level is less than the HCPC which approaches 1445 pounds.

## Community 2.1

### Shortgrass Community



Figure 8. 2.1 Shortgrass Community

The Shortgrass Community (2.1) shows some noticeable differences from the HCPC. There has been a decrease in midgrasses, an increase in both blue and black grama production and some minor increases in the shrub component (mainly mesquite and sand sagebrush). Site stability is intact and the basic plant community functions have not been dramatically affected. The amount of perennial forbs has decreased somewhat from the HCPC but that may be due to moisture fluctuations more than grazing management. The production level is less than the HCPC. Sideoats grama is present in this community, but is somewhat infrequent while short grasses dominate. With careful grazing management, this community may be moved towards HCPC. At this point, the shrub component is not a major concern, although mesquite can increase on this site even with good management. Some individual plant treatment may be in order soon, provided the objective is to maintain the site in a grassland state.

Table 6. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	550	1000	1300
Shrub/Vine	50	60	80
Forb	30	50	60
Microbiotic Crusts	5	5	5
Tree	0	0	1
<b>Total</b>	<b>635</b>	<b>1115</b>	<b>1446</b>

Figure 10. Plant community growth curve (percent production by month). TX0251, Shortgrass Community with few shrubs. Warm-season shortgrass dominant community with few shrubs and forbs..

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2	5	10	22	25	10	5	9	8	2	1

## State 3

### Shortgrass/Shrubland State

There are only small amounts of midgrasses present. Shortgrasses dominate with a significant increase in sand sagebrush and more open turf. There has also been an increase in broom snakeweed, perennial threeawn and dropseeds. There has also been an increase in bare ground. Blue grama is the dominant shortgrass species. Vigor of the blue grama is low and some increase in annual forbs is visible.

Community 3.1  
Shortgrass/Shrub Community



Figure 11. 3.1 Degraded Shortgrass Community

This community exhibits considerable departure from the HCPC. There are only small amounts of midgrasses present. Shortgrasses dominate with a significant increase in sand sagebrush and more open turf. There has also been an increase in broom snakeweed, perennial threeawn and dropseeds. There has also been an increase in bare ground. Blue grama is the dominant shortgrass species. Vigor of the blue grama is low and some increase in annual forbs is visible. The plant community shows the result of long-term continuous grazing pressure and no control of woody shrubs. Once shortgrasses have dominated the site for several years, it is difficult to completely recover the balance between mid and shortgrass species that exist in the HCPC. However, as long as a reasonable seed source for the midgrass species exists, good grazing management and brush management can usually shift the plant community back toward HCPC over time. In order to initiate a significant shift in this plant community, a prescribed grazing management plan that includes some growing season rest periods for 4 to 5 years would be necessary, along with some selected control of the more dense stands of sand sagebrush and other shrubby and weedy forbs. Of course, some favorable years of precipitation would speed up the recovery process a great deal. Stocking rate adjustments will be needed and careful monitoring done.

Table 7. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	460	850	1000
Shrub/Vine	50	120	140
Forb	40	80	120
Microbiotic Crusts	5	5	5
Tree	0	0	1
Total	555	1055	1266

Figure 13. Plant community growth curve (percent production by month).  
TX0257, Degraded Shortgrass Community. Warm-season shortgrasses  
having low production, forbs and shrubs..

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	4	8	10	23	23	10	5	8	4	3	1

Transition T1A

**State 1 to 2**

With heavy continuous grazing and no fires (over a ten to twenty year period), the Grassland State will transition into the Shortgrass State.

**Transition T1B****State 1 to 3**

With heavy continuous grazing, long-term droughts, brush invasion, no brush management practices, the Grassland State will transition into the Shortgrass/Shrubland State.

**Restoration pathway R2A****State 2 to 1**

With conservation practices implemented such as Prescribed Grazing (which also includes growing season rest), Pest Management, and selective Brush Management (i.e. Individual Plant Treatments) over less than a five year timeframe.

**Conservation practices**

Brush Management
Prescribed Grazing
Integrated Pest Management (IPM)

**Transition T2A****State 2 to 3**

With continuation of heavy continuous grazing pressure, no fires, brush invasion, long-term drought conditions, no brush management, no pest management, and no desirable rest periods for plant growth has allowed the Shortgrass State to transition to the Shortgrass/Shrubland State.

**Restoration pathway R3A****State 3 to 1**

With conservation practices such as Prescribed Grazing, growing season rests, selective Brush and Pest Management over a five to seven year period, the Shortgrass/Shrubland State can be restored to the Grassland State.

**Conservation practices**

Brush Management
Prescribed Grazing
Integrated Pest Management (IPM)

**Restoration pathway R3B****State 3 to 2**

With conservation practices such as Prescribed Grazing, Brush and Pest Management over a three to four year period, the Shortgrass/Shrubland State can be restored to the Shortgrass State.

**Conservation practices**

Brush Management
Prescribed Grazing
Integrated Pest Management (IPM)



## Additional community tables

Table 8. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
<b>Grass/Grasslike</b>					
1	<b>Midgrasses</b>			200–370	
	sideoats grama	BOCU	<i>Bouteloua curtipendula</i>	200–350	–
	little bluestem	SCSCS	<i>Schizachyrium scoparium</i> var. <i>scoparium</i>	0–20	–
2	<b>Mid/Shortgrasses</b>			260–390	
	buffalograss	BODA2	<i>Bouteloua dactyloides</i>	20–30	–
	hairy grama	BOHIH	<i>Bouteloua hirsuta</i> var. <i>hirsuta</i>	20–30	–
	silver beardgrass	BOLAT	<i>Bothriochloa laguroides</i> ssp. <i>torreyana</i>	20–30	–
	Arizona cottontop	DICA8	<i>Digitaria californica</i>	20–30	–
	fall witchgrass	DICO6	<i>Digitaria cognata</i>	20–30	–
	needle and thread	HECOC8	<i>Hesperostipa comata</i> ssp. <i>comata</i>	20–30	–
	common wolfstail	LYPH	<i>Lycurus phleoides</i>	20–30	–
	ear muhly	MUAR	<i>Muhlenbergia arenacea</i>	20–30	–
	Hall's panicgrass	PAHA	<i>Panicum hallii</i>	20–30	–
	vine mesquite	PAOB	<i>Panicum obtusum</i>	20–30	–
	James' galleta	PLJA	<i>Pleuraphis jamesii</i>	20–30	–
	plains bristlegrass	SEVU2	<i>Setaria vulpiseta</i>	20–30	–
	sand dropseed	SPCR	<i>Sporobolus cryptandrus</i>	20–30	–
3	<b>Shortgrasses</b>			400–700	
	blue grama	BOGR2	<i>Bouteloua gracilis</i>	275–400	–
	black grama	BOER4	<i>Bouteloua eriopoda</i>	125–300	–
4	<b>Tallgrasses</b>			10–60	
	sand bluestem	ANHA	<i>Andropogon hallii</i>	5–20	–
	Canada wildrye	ELCA4	<i>Elymus canadensis</i>	0–20	–
	Indiangrass	SONU2	<i>Sorghastrum nutans</i>	5–20	–
<b>Forb</b>					
5	<b>Forbs</b>			70–130	
	Forb, annual	2FA	<i>Forb, annual</i>	0–50	–
	Cuman ragweed	AMPS	<i>Ambrosia psilostachya</i>	0–50	–
	lyreleaf greeneyes	BELY	<i>Berlandiera lyrata</i>	0–50	–
	yellow sundrops	CASE12	<i>Calylophus serrulatus</i>	0–50	–
	eastern daisy fleabane	ERAN	<i>Erigeron annuus</i>	0–50	–
	red dome blanketflower	GAPI	<i>Gaillardia pinnatifida</i>	0–50	–
	beeblossom	GAURA	<i>Gaura</i>	0–50	–
	broom snakeweed	GUSA2	<i>Gutierrezia sarothrae</i>	0–50	–
	collegeflower	HYFL	<i>Hymenopappus flavescens</i>	0–50	–
	trailing krameria	KRLA	<i>Krameria lanceolata</i>	0–50	–
	dotted blazing star	LIPU	<i>Liatris punctata</i>	0–50	–

	bractless blazingstar	MENU	<i>Mentzelia nuda</i>	0–50	–
	Roemer's mimosa	MIRO6	<i>Mimosa roemeriana</i>	0–50	–
	James' holdback	POJA5	<i>Pomaria jamesii</i>	0–50	–
	slimflower scurfpea	PSTE5	<i>Psoralidium tenuiflorum</i>	0–50	–
	silverleaf nightshade	SOEL	<i>Solanum elaeagnifolium</i>	0–50	–
	scarlet globemallow	SPCO	<i>Sphaeralcea coccinea</i>	0–50	–
	Rocky Mountain zinnia	ZIGR	<i>Zinnia grandiflora</i>	0–50	–
<b>Shrub/Vine</b>					
6	<b>Shrubs/Vines</b>			50–85	
	sand sagebrush	ARFI2	<i>Artemisia filifolia</i>	0–50	–
	tree cholla	CYIMI	<i>Cylindropuntia imbricata</i> var. <i>imbricata</i>	0–50	–
	vine jointfir	EPPE	<i>Ephedra pedunculata</i>	0–50	–
	winterfat	KRLA2	<i>Krascheninnikovia lanata</i>	0–50	–
	plains pricklypear	OPPO	<i>Opuntia polyacantha</i>	0–50	–
	honey mesquite	PRGL2	<i>Prosopis glandulosa</i>	0–50	–
	soapweed yucca	YUGL	<i>Yucca glauca</i>	0–50	–
<b>Tree</b>					
7	<b>Trees</b>			0–1	
	netleaf hackberry	CELAR	<i>Celtis laevigata</i> var. <i>reticulata</i>	0–1	–
	western soapberry	SASAD	<i>Sapindus saponaria</i> var. <i>drummondii</i>	0–1	–

## Animal community

Mule deer and pronghorn are the principal large herbivores utilizing the community. In addition, rabbits, prairie dogs, ground squirrels, mice and voles, and predators such as coyotes, bobcats, badgers, and raptors utilize the site. In pre settlement times elk and bison were present. Scaled quail can be seen frequently. The site does not have much woody cover, therefore, mainly grassland species are found.

Plant preference by animal kind:

This rating system provides general guidance as to animal preference for plant species. It also indicates possible competition between kinds of herbivores for various plants. Grazing preference changes from time to time, especially between seasons, and between animal kinds and classes. Grazing preference does not necessarily reflect the ecological status of the plant within the plant community. For wildlife, plant preferences for food and plant suitability for cover are rated.

Animal Preference:

Preferred (P) – Percentage of plant in animal diet is greater than it occurs on the land

Desirable (D) – Percentage of plant in animal diet is similar to the percentage composition on the land

Undesirable (U) – Percentage of plant in animal diet is less than it occurs on the land

Not Consumed (N) – Plant would not be eaten under normal conditions. It is only consumed when other forages not available.

Toxic (T) – Rare occurrence in diet and, if consumed in any tangible amounts results in death or severe illness in animal

## Hydrological functions

The site's usual position on the landscape is such that it can contribute runoff to lower lying drainages. If good vegetative cover is not maintained, water erosion and siltation can occur. If a good plant community is maintained runoff is very limited and little surface erosion is visible.

**Recreational uses**

Hunting, Camping, Hiking, Bird watching, Photography, Horseback Riding

**Wood products**

None.

**Other products**

None.

**Other information**

None.

**Inventory data references**

NRCS FOTG – Section II of the FOTG Range Site Descriptions and numerous historical accounts of vegetative conditions at the time of early settlement in the area were used in the development of this site description. Vegetative inventories were made at several site locations for support documentation.

Inventory Data References (documents):

NRCS FOTG – Section II - Range Site Descriptions  
NRCS Clipping Data summaries over a 20 year period

**Other references**

Natural Resources Conservation Service - Range Site Descriptions  
USDA-Natural Resources Conservation Service - Soil Surveys & Website soil database  
Rathjen, Frederick W., The Texas Panhandle Frontier, Rev. 1998, Univ. of Texas Press  
Hatch, Brown and Ghandi, Vascular Plants of Texas (An Ecological Checklist)  
Texas A&M Exp. Station, College Station, Texas  
Texas Tech University – Range, Wildlife & Fisheries Dept.  
Wester, David; The Southern High Plains; A History of Vegetation 1540 to Present; USDA  
Forest Service, RMRS, 2007

Reviewers:

Clint Rollins, RMS, NRCS, Amarillo, Texas  
Kelley Attebury, RSS, NRCS, Lubbock, Texas

**Contributors**

J.R. Bell

**Rangeland health reference sheet**

Interpreting Indicators of Rangeland Health is a qualitative assessment protocol used to determine ecosystem condition based on benchmark characteristics described in the Reference Sheet. A suite of 17 (or more) indicators are typically considered in an assessment. The ecological site(s) representative of an assessment location must be known prior to applying the protocol and must be verified based on soils and climate. Current plant community cannot be used to identify the ecological site.

Author(s)/participant(s)	Stan Bradbury, Zone RMS, NRCS, Lubbock, Texas
--------------------------	---

Contact for lead author	806-791-0581
Date	02/28/2008
Approved by	Mark Moseley, RMS, NRCS, San Antonio, Texas
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

## Indicators

1. **Number and extent of rills:** None to slight.  

---
2. **Presence of water flow patterns:** None to slight.  

---
3. **Number and height of erosional pedestals or terracettes:** None to slight.  

---
4. **Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):** 20-25%.  

---
5. **Number of gullies and erosion associated with gullies:** None to slight.  

---
6. **Extent of wind scoured, blowouts and/or depositional areas:** None to slight.  

---
7. **Amount of litter movement (describe size and distance expected to travel):** None to slight.  

---
8. **Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values):** Resistant to surface erosion.  

---
9. **Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):** Fine sandy loam, friable surface, and medium SOM.  

---
10. **Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff:** Basal cover and density with small interspaces should make rainfall impact minimal. This site has moderate permeability, runoff is slow and available water holding capacity is high.  

---
11. **Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):** None.  

---



12. **Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):**

Dominant: Warm-season midgrasses = Warm-season shortgrasses >

Sub-dominant: Warm-season tallgrasses = Cool-season shortgrasses >

Other: Forbs = Shrubs/Vines

Additional:

---

13. **Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):** Minimal mortality and decadence.
- 

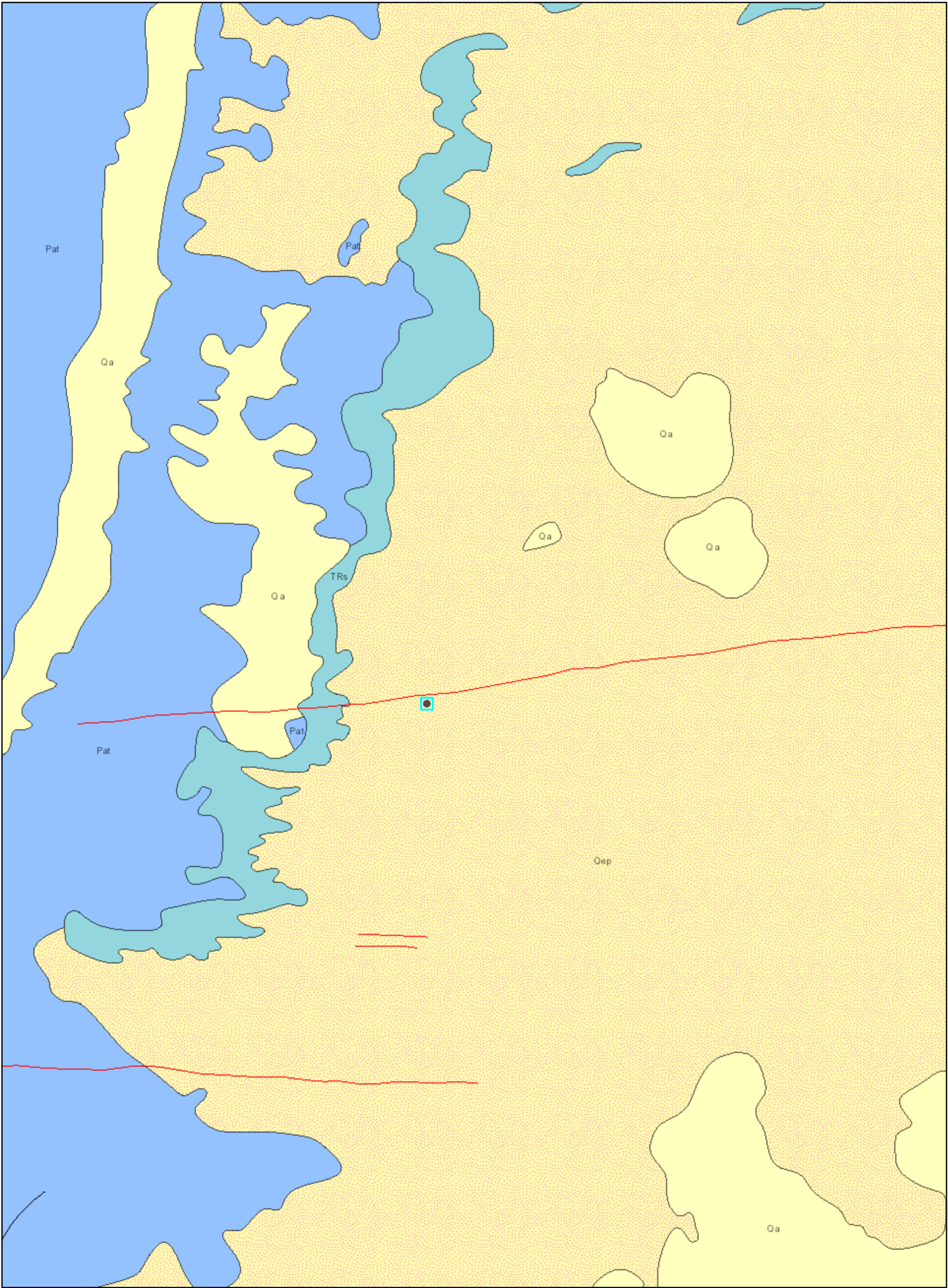
14. **Average percent litter cover (%) and depth ( in):** Litter is dominately herbaceous.
- 

15. **Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production):** 1,000 - 1,750 pounds per acre.
- 

16. **Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize degraded states and have the potential to become a dominant or co-dominant species on the ecological site if their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site:** Sand sagebrush, Yucca, Mesquite.
- 

17. **Perennial plant reproductive capability:** All plants should be capable of reproduction.
-

# ArcGIS Web Map



2/3/2022, 12:51:02 PM

## Lithologic Contacts

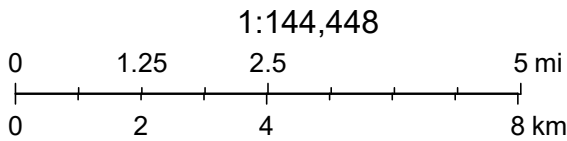
- Contact, Exposed
- Contact, Gradational
- Nomenclature change
- Map Boundary

## Faults

- Fault, Exposed
- Fault, Intermittent
- Fault, Concealed
- Shere Zone

## Dikes

- <all other values>
- Dike
- Dike intruding fault
- Volcanic Vents



USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data;

## **ATTACHMENT 4**



## Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>2/14/2022</u>
Site Location Name:	<u>Avalanche Journal Battery</u>	Report Run Date:	<u>2/15/2022 9:56 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

### Summary of Times

Arrived at Site	<u>2/14/2022 7:50 AM</u>
Departed Site	<u>2/14/2022 3:00 PM</u>

### Field Notes

- 8:56** Arrived on site to begin delineation with the geoprobe.
- 10:42** Collected BH22-01 at surface, 5', 10', and 15'. This sample point hit refusal at 15'.
- 13:01** BH22-02 hit refusal at 15'.
- 13:51** Both boreholes are hot on chlorides down to 14' and 15'.

### Next Steps & Recommendations

- 1 Come back later this week to delineate with a trackhoe



## Daily Site Visit Report



## Site Photos

Viewing Direction: North



Location

Viewing Direction: North



Sample area for BH22-01

Viewing Direction: North



Sample area for BH22-02

Viewing Direction: Northeast



Both boreholes were collected at north side of the pad at the west side of where the battery sat.

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Chance Dixon

**Signature:**   
Signature



## Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>2/22/2022</u>
Site Location Name:	<u>Avalanche Journal Battery</u>	Report Run Date:	<u>2/23/2022 1:35 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

### Summary of Times

Arrived at Site 2/22/2022 10:10 AM

Departed Site 2/22/2022 3:15 PM

### Field Notes

**13:10** Arrived on site to continue delineation.

**13:10** Collected BH22-04 through BH22-07 at 0', 3', and 6'

**13:19** BH22-04 is borderline clean at strictest criteria at 0', 3', and 6'

BH22-05 is hot on chlorides at 0', 3', and 6'

BH22-06 is hot on chlorides at 6'.

BH22-07 is hot on chlorides at 6'.

**17:31** BH22-04 was hot on TPH at 0', 3', and 6'

BH22-06 was clean on TPH at 0'

BH22-07 was clean on TPH at 0' and 3'

### Next Steps & Recommendations

1

# Daily Site Visit Report



## Site Photos

Viewing Direction: Northeast



Sample area for the day. Where battery used to sit

Viewing Direction: North



Sample area for BH22-04

Viewing Direction: North



Sample area for BH22-05

Viewing Direction: North



Sample area for BH22-06 through BH22-07

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Chance Dixon

**Signature:**   
Signature





## Daily Site Visit Report

Client:	EOG Resources Inc.	Inspection Date:	2/23/2022
Site Location Name:	Avalanche Journal Battery	Report Run Date:	2/24/2022 2:31 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 2/23/2022 9:05 AM

Departed Site 2/23/2022 2:20 PM

### Field Notes

**11:21** Arrived on site to continue delineation.

**11:21** Delineating toward the south where the access road runs through the pad.

**11:22** Collected BH22-08 through BH22-11 at 0', 3', and 6'

**13:34** BH22-08 is hot on TPH at 0'. Hot on chlorides at 3' and 6'

BH22-09 is hot on TPH at the surface. Hot on chlorides at 0', 3', and 6'

BH22-10 is clean on chlorides and PetroFlag at all three depths.

BH22-11 is hot on TPH at all three depths.

### Next Steps & Recommendations

1

## Daily Site Visit Report



## Site Photos

Viewing Direction: East



Sample area for BH22-09 through BH22-10 W-E

Viewing Direction: West



Sample area for BH22-09 through BH22-10 E-W

Viewing Direction: East



Sample area for BH22-11 on east side of the pad on the access road

Viewing Direction: South



Sample area for BH22-10



## Daily Site Visit Report

Viewing Direction: West



Sample area for BH22-09

Viewing Direction: North



Sample area for BH22-09 on the west side of the pad

Viewing Direction: North



Sample area for BH22-08 by the west entrance of the pad

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Chance Dixon

**Signature:**   
Signature



## Daily Site Visit Report

Client:	EOG Resources Inc.	Inspection Date:	3/2/2022
Site Location Name:	Avalanche Journal Battery	Report Run Date:	3/3/2022 12:25 AM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID	-Avalanche Journal Battery	Project Owner:	Chase Settle
Project Reference #	22E-00347	Project Manager:	Michael Moffitt

### Summary of Times

Arrived at Site	3/2/2022 8:00 AM
Departed Site	3/2/2022 3:00 PM

### Field Notes

**14:05** Per instruction, continued delineation of Avalanche Battery.  
Obtained BH22-12 to BH22-16.

**14:13** Worked in clockwise fashion stepping out from samples listed below:

BH22-12 step out from BH22-05  
BH22-13 step out from BH22-09  
BH22-14 step out from BH22-06  
BH22-15 step out from BH22-08  
BH22-16 step out from BH22-07

**14:15** All samples except for BH22-12 at 0' were under criteria for TPH (BH22-12 at 0' was 1117 ppm for TPH).

At surface, dark black/brown soil color.

**14:11** See field screen form for chloride numbers.

**14:13** Hitting rough caliche layer at 4' depth.



## Daily Site Visit Report



### Next Steps & Recommendations

- 1 Continue delineation.

## Daily Site Visit Report



## Site Photos

## Viewing Direction: Northeast



BH22-12 location

## Viewing Direction: Northeast



BH22-13 location

## Viewing Direction: East



BH22-14 location

## Viewing Direction: East



BH22-15 location



## Daily Site Visit Report

### Viewing Direction: Southeast



BH22-16 location

### Viewing Direction: North



Field screen form

### Viewing Direction: East



Pit location on south side of site

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Austin Harris

**Signature:**

A handwritten signature in black ink, appearing to be 'AH' with a long horizontal stroke extending to the right.

Signature



## Daily Site Visit Report

Client:	EOG Resources Inc.	Inspection Date:	3/3/2022
Site Location Name:	Avalanche Journal Battery	Report Run Date:	3/4/2022 12:18 AM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID	-Avalanche Journal Battery	Project Owner:	Chase Settle
Project Reference #	22E-00347	Project Manager:	Michael Moffitt

### Summary of Times

Arrived at Site	3/3/2022 8:30 AM
Departed Site	3/3/2022 3:00 PM

### Field Notes

**14:19** Arrived on site to continue delineation

**14:21** Obtained samples on North side of site moving West to East in clockwise fashion:

BH22-17 step out from BH22-02  
 BH22-18 step out from BH22-03  
 Bh22-20 step out from BH22-11.

**14:23** Attempted to obtain BH22-19 in Northeast corner between BH22-18 and BH22-20, but upon augering to 2' began running into black "aspertine" solidified material.

Upon bringing up first 2' sample before a step out, a very viscous black material was unearthed resembling an oily substance.  
 See pictures.

**14:24** Did NOT obtain BH22-19 as a Right of Entry needed to sample further off pad

### Next Steps & Recommendations

**1** Continue delineation





# Daily Site Visit Report

## Site Photos

### Viewing Direction: South



BH22-17 on North side of site



### Viewing Direction: South



BH22-18 on North side of site



## Daily Site Visit Report

Viewing Direction: Southwest	Viewing Direction: Southwest
 A photograph showing a wide, flat desert landscape under a cloudy sky. A dark vehicle is visible in the distance on the left. In the foreground, there are some sparse, dry plants and a small, dark, vertical object (possibly a rockbar) in the ground.	 A close-up photograph of a dark, viscous, tar-like substance on the ground. The substance is dark black or dark brown and appears to be oozing or dripping. It is surrounded by dry, reddish-brown soil and some small, dry plant matter.
<p>Attempted BH22-19 location in Northeast corner of site. The borehole with rockbar inserted is initial 5' step out from BH22-04. Upon hitting refusal a 3' step out was used and again hit a hard substance.</p>	<p>Upon the second step out of BH22-19 the material the came out was a "tar like" substance with strong petroleum odor.</p>



## Daily Site Visit Report

### Viewing Direction: West



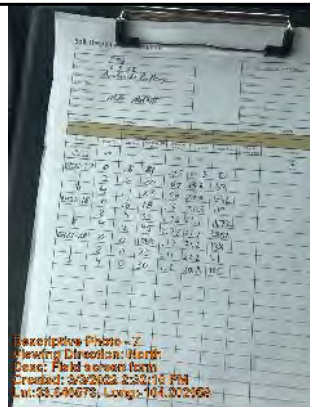
BH22-20 location in access road leading out East.

### Viewing Direction: West



Different attempted locations for BH22-20, but running into hard black "asphertine" material again.

### Viewing Direction: North



Field screen form

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Austin Harris

**Signature:**

A handwritten signature in black ink, appearing to be 'AH' or similar initials, written over a horizontal line.

Signature



## Daily Site Visit Report

Client:	EOG Resources Inc.	Inspection Date:	3/4/2022
Site Location Name:	Avalanche Journal Battery	Report Run Date:	3/5/2022 12:59 AM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID	-Avalanche Journal Battery	Project Owner:	Chase Settle
Project Reference #	22E-00347	Project Manager:	Michael Moffitt

### Summary of Times

Arrived at Site	3/4/2022 8:30 AM
Departed Site	3/4/2022 3:40 PM

### Field Notes

- 14:50** Continued/ completed delineation of site
- 14:51** Obtained BH2219, BH22-21, BH22-22, BH22-23.
- 14:52** BH22-19 step out from BH22-04  
BH22-21 step out from BH22-18  
BH22-22 step out from BH22-12  
BH22-23 step out from BH22-15

### Next Steps & Recommendations

- 1 Send samples to lab
- 2 Determine remediation plan



## Daily Site Visit Report



## Site Photos

Viewing Direction: North



Rough sketch of sample locations

Viewing Direction: North



Field screen form

Viewing Direction: West



BH22-19 location



Viewing Direction: South



BH22-21 location



## Daily Site Visit Report

Viewing Direction: Northeast	Viewing Direction: East
<div><p>Latitude: 33° 11' 21.00" N Longitude: -104° 05' 11.00" W Altitude: 1200 ft Date: 6/9/2022 Time: 12:59 PM User: BH22-22</p><p>Description: Image - 5 Location: BH22-22 location Created: 6/9/2022 12:59 PM User: BH22-22</p></div>	<div><p>Latitude: 33° 11' 21.00" N Longitude: -104° 05' 11.00" W Altitude: 1200 ft Date: 6/9/2022 Time: 12:59 PM User: BH22-23</p><p>Description: Image - 6 Location: BH22-23 location Created: 6/9/2022 12:59 PM User: BH22-23</p></div>
BH22-22 location	BH22-23 location

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Austin Harris

**Signature:**

A handwritten signature in black ink, appearing to be 'AH' or similar initials, written over a horizontal line.

Signature



## Daily Site Visit Report

Client:	EOG Resources Inc.	Inspection Date:	3/28/2022
Site Location Name:	Avalanche Journal Battery	Report Run Date:	5/31/2022 5:43 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	3/28/2022 8:30 AM
Departed Site	3/28/2022 3:30 PM

### Field Notes

**8:55** 0800: Arrived on site  
0830: Met with HCI and signed Safety paperwork  
0845: Marked drilling locations and moved rig to first BH location.

**10:00** Field Screening/sample collection prepared for BH22-24 (Borehole is located in the middle of the tank battery where impacts are present)

1200: Samples at various depths field screened for hydrocarbons and chlorides ranging from 20-35 ft BGS respectively  
12:40: BH22-24-50' was collected. Sample consisted of dry soil from a distinct red bed. Poorly sorted, no moisture, with a powder like consistency.  
12:45: BH was filled with bentonite chips and backfilled thereafter.

**1:15** Field Screening/sample collection prepared and borehole location chosen as secondary sample point to prove vertical delineation

2:00: BH22-25-25.0' was collected and field screened for TPH and chlorides. Results can be found on the associated DSS table.  
2:20: BH22-25-35.0' was collected and field screened for TPH and chlorides. Results can be found on the associated DSS table.  
3:00: BH22-25 was filled with bentonite chips, backfilled and completed. Samples were jarred and put on ice for the lab.

## Daily Site Visit Report



## Site Photos

Viewing Direction: South



Sample at 20' BGS. Pilot hole

Viewing Direction: West



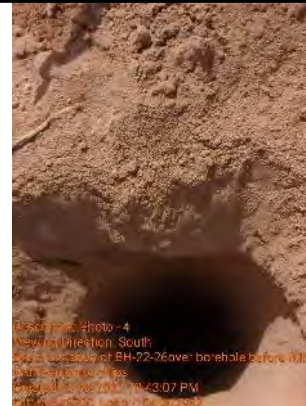
Depth to start at 25'. located at North middle perimeter of the pad.

Viewing Direction: Southwest



BH-22-24 Location

Viewing Direction: South



Location of BH-22-24 over borehole before filling with Bentonite chips



## Daily Site Visit Report



Daily Site Visit Signature

Inspector: Mike Moffitt

Signature:

A handwritten signature in black ink, appearing to be 'Mike Moffitt', written over a horizontal line.

Signature



## Daily Site Visit Report

Client:	EOG Resources Inc.	Inspection Date:	4/4/2022
Site Location Name:	Avalanche Journal Battery	Report Run Date:	4/4/2022 11:35 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	4/4/2022 8:00 AM
Departed Site	4/4/2022 3:03 PM

### Field Notes

- 14:56** Began excavation operations for further site reclamation
- 14:56** Seems to be large amount of solidified oil layer everywhere approximately 2' down.  
See pictures.
- 15:03** Digging edges of entire excavation and piling spoil in middle of site as the whole site will ultimately be excavated.  
After edges have been further excavated, wall sampling will commence to determine if walls need to be taken out further.
- 17:33** \*No field screens taken today\*

### Next Steps & Recommendations

- 1 Continue excavation

## Daily Site Visit Report



## Site Photos

## Viewing Direction: Southeast



Excavation area near East side where road begins

## Viewing Direction: East



North side of excavation

## Viewing Direction: East



Excavation area near East side where road begins

## Viewing Direction: Northeast



Excavation area near East side where road begins



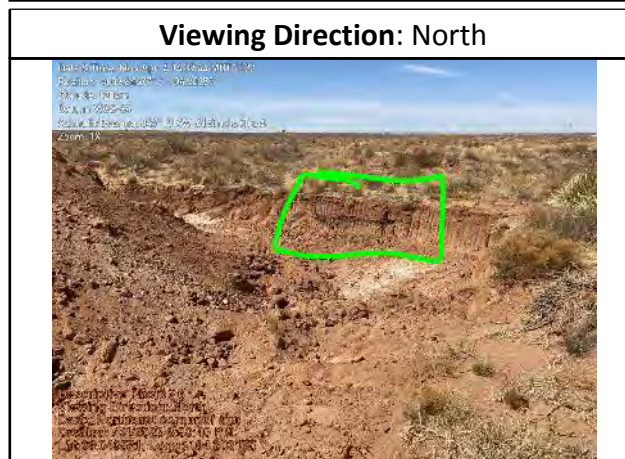
## Daily Site Visit Report



Far East side of excavation going into road.  
Possible leaching of oil material.  
Spills possibly went this way down road OR an asphalt layer.



Excavation area



Northeast corner of site



North side of excavation



## Daily Site Visit Report

Viewing Direction: South



East side of excavation

Viewing Direction: Southeast



Bubbles out area where solidified oil material at surface at approximately 2' down



## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Austin Harris

**Signature:**

A handwritten signature in black ink, appearing to be 'AH' or similar initials, written over a horizontal line.

Signature



## Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>4/8/2022</u>
Site Location Name:	<u>Avalanche Journal Battery</u>	Report Run Date:	<u>4/8/2022 11:58 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

### Summary of Times

Arrived at Site	<u>4/8/2022 8:00 AM</u>
Departed Site	<u>4/8/2022 3:00 PM</u>

### Field Notes

**14:29** Continued reclamation excavation and field screening wall samples

**14:30** Obtained WS22-17 to WS22-23.  
WS22-17 and 18 came back dirty, all others good.

**14:38** Hauled out approximately 470 yards yesterday April 7 as well as another 470 today April 8, 2022.

### Next Steps & Recommendations

**1** Continue excavation and wall sampling.

## Daily Site Visit Report



## Site Photos

Viewing Direction: North



Southwest extent of excavation near middle of site

Viewing Direction: East



Heater treater

Viewing Direction: North



Solidified oil material below ground surface

Viewing Direction: West



Eastern toe into road looking west





## Daily Site Visit Report

**Viewing Direction: Northeast**



Northeast corner

**Viewing Direction: Northwest**



Northwest area

**Viewing Direction: West**



Middle of excavation under battery

**Viewing Direction: West**



Northwest wall where excavation will trail Southwest into road partially



## Daily Site Visit Report

**Viewing Direction: Southeast**



Looking back at Southeast area

**Viewing Direction: Southwest**



Southwest corner of excavation so far.  
Unearthed vertical heater treater in ground.

**Viewing Direction: Southeast**



Heater treater



## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Austin Harris

**Signature:**

A handwritten signature in black ink, appearing to be 'AH' with a stylized flourish.

Signature



## Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>4/6/2022</u>
Site Location Name:	<u>Avalanche Journal Battery</u>	Report Run Date:	<u>4/6/2022 11:16 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

### Summary of Times

Arrived at Site	<u>4/6/2022 8:00 AM</u>
Departed Site	<u>4/6/2022 2:52 PM</u>

### Field Notes

**14:44** Continued excavation Westward and began wall samples around all of perimeter

**14:45** Approximately 470 yards loaded out

### Next Steps & Recommendations

**1** Continue excavation Westward and sampling.

## Daily Site Visit Report



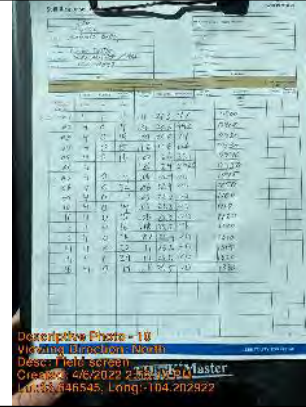
## Site Photos

Viewing Direction: North



Excavation and spoil pile.

Viewing Direction: North



Field screen

Viewing Direction: East



Drive in and Southeast corner of excavation





Viewing Direction: West



Excavation extent on South side



## Daily Site Visit Report

<p><b>Viewing Direction: East</b></p>  <p> <small>           Description: Photo - 4            Viewing Direction: East            Descr: Road depth matched and taken from 2' to 4' depth per reclamation standard            Created: 6/9/2022 2:47:10 PM            Lat:33.546476, Long:104.202758         </small> </p> <p>Road depth matched and taken from 2' to 4' depth per reclamation standard</p>	<p><b>Viewing Direction: North</b></p>  <p> <small>           Description: Photo - 5            Viewing Direction: North            Descr: Northeast corner and middle of current excavation            Created: 6/9/2022 2:47:52 PM            Lat:33.546476, Long:104.202758         </small> </p> <p>Northeast corner and middle of current excavation</p>
<p><b>Viewing Direction: West</b></p>  <p> <small>           Description: Photo - 6            Viewing Direction: West            Descr: Contaminant in middle of excavation that may need to be addressed and taken deeper            Created: 6/9/2022 2:48:34 PM            Lat:33.546476, Long:104.202758         </small> </p> <p>Contaminant in middle of excavation that may need to be addressed and taken deeper</p>	<p><b>Viewing Direction: West</b></p>  <p> <small>           Description: Photo - 7            Viewing Direction: West            Descr: North extent of excavation            Created: 6/9/2022 2:49:16 PM            Lat:33.546476, Long:104.202758         </small> </p> <p>North extent of excavation</p>





## Daily Site Visit Report

Viewing Direction: Northwest



Northwest corner of current excavation that bubbles out.  
Some staining in middle where possible pipe was located.

Viewing Direction: East



6" scrape approximately 5' wide on south wall to get rid of solidified paraffin material



## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Austin Harris

**Signature:**

A handwritten signature in black ink, appearing to be 'AH' or similar initials, written over a horizontal line.

Signature



## Daily Site Visit Report

Client:	EOG Resources Inc.	Inspection Date:	4/11/2022
Site Location Name:	Avalanche Journal Battery	Report Run Date:	4/12/2022 2:16 AM
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	4/11/2022 8:49 AM
Departed Site	4/11/2022 5:57 PM

### Field Notes

- 11:25** Completed safety paperwork on arrival. Continuing excavation to 4 feet bags, moving west. Removed material from center of excavation to level "hump".
- 11:26** Removed buried treater from north edge of excavation and moved to south edge of excavation to haul off. Crystallized material inside treater.
- 20:13** Collected wall samples 24, 25 from north wall and 26, 27 from south wall. Excavation wall sample 27 high on CI. Will extend excavation.
- 20:14** Collected base samples 1-8 at east end of excavation. Approximately 200 square feet for each composite sample.
- 20:15** Hauled 492 yards total by end of day.

### Next Steps & Recommendations

1

## Daily Site Visit Report



## Site Photos

Viewing Direction: East



Extracted buried treater from north edge of pad.

Viewing Direction: West



Field screenings.

Viewing Direction: Southeast



Treater moved to south edge of pad.

Viewing Direction: Northwest



Continued to haul material away from location.



## Daily Site Visit Report

**Viewing Direction: Northwest**



Excavated previous spoil pile area.

**Viewing Direction: West**



Removed hump in middle of excavation, leveling base to 4 feet bags.

**Viewing Direction: West**



Collected wall samples 24 and 25 along north edge.

**Viewing Direction: West**



Collected excavation base samples on east end of excavation.





## Daily Site Visit Report

Viewing Direction: Southwest



Collected excavation wall samples 26 and 27 on south edge of excavation .

Viewing Direction: Northwest



Fenced excavation after last round of trucks left for the day.



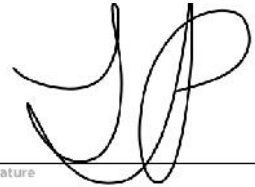
## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

  
Signature



## Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>4/12/2022</u>
Site Location Name:	<u>Avalanche Journal Battery</u>	Report Run Date:	<u>4/13/2022 2:09 AM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

### Summary of Times

Arrived at Site	<u>4/12/2022 8:54 AM</u>
Departed Site	<u>4/12/2022 5:52 PM</u>

### Field Notes

- 9:15** Completed safety paperwork on arrival. Continuing excavation to 4 feet bgs moving west. Also removing additional 1 foot from dark areas of excavation base.
- 16:16** Excavated stained area down another foot from 4 to 5 feet.
- 20:05** Excavated another bucket width on south edge at WES22-27, and collected wall sample 28, which was clean.
- 20:05** Hauled 504 yards of material from site.
- 20:07** Sampled and field screened 5-foot excavation base samples 9-23. BES22-13 and 14 exceeded 10000 ppm chloride.

### Next Steps & Recommendations

1

## Daily Site Visit Report



## Site Photos

Viewing Direction: Northeast



Started removing an additional foot of material from stained area in middle and east portion of excavation.

Viewing Direction: West



Removed additional foot of material from stained excavation bottom.

Viewing Direction: East



Collected excavation base samples 9-23 for additional foot of excavation.

Viewing Direction: East



Excavation at end of day.



## Daily Site Visit Report

Viewing Direction: East



Excavation at end of day.

Viewing Direction: Southeast



Spoil pile prepared for loading trucks in the morning.

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

A handwritten signature in black ink, appearing to be 'LP', written over a horizontal line. Below the line, the word 'Signature' is printed in a small, light gray font.





## Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>4/13/2022</u>
Site Location Name:	<u>Avalanche Journal Battery</u>	Report Run Date:	<u>4/14/2022 1:26 AM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

### Summary of Times

Arrived at Site	<u>4/13/2022 8:20 AM</u>
Departed Site	<u>4/13/2022 4:46 PM</u>

### Field Notes

- 19:19** Completed safety paperwork on arrival. Wild West loaded the rest of the spoil pile throughout the day.
- 19:21** Collected excavation base samples 24-37, and 39 at 4 feet bgs. Collected excavation base sample 38 and 40-44 at 5 feet bgs.
- 19:24** Field screen for BES22-40 exceeded PetroFlag limit even after dilution (1 gram). Base excavation samples 41 and 42 passed NMOCD criteria , but are on areas with visible hydrocarbons.
- 19:24** 252 yards of material removed from location today.

### Next Steps & Recommendations

1

## Daily Site Visit Report



## Site Photos

Viewing Direction: North



Spoil pile in morning prior to removal.

Viewing Direction: East



Excavation in morning.

Viewing Direction: Southeast



Collected excavation base samples south of 5 foot excavation.

Viewing Direction: East



Continued collecting excavation base samples within 5 foot excavation.



## Daily Site Visit Report

**Viewing Direction: Southeast**



Staining still visible at surface of 5- foot excavation .

**Viewing Direction: Northeast**



Completely removed spoil pile.

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

  
Signature



## Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>4/14/2022</u>
Site Location Name:	<u>Avalanche Journal Battery</u>	Report Run Date:	<u>4/15/2022 12:45 AM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

### Summary of Times

Arrived at Site	<u>4/14/2022 7:45 AM</u>
Departed Site	<u>4/14/2022 4:17 PM</u>

### Field Notes

**9:19** Completed safety paperwork on arrival. Mapped areas within existing excavation that exceed TPH or Cl threshold. Directed excavation.

**14:10** Excavated east end of work area incrementally to 10 feet bgs. Chloride measurements were less than 10000 ppm at 10 feet.

**16:11** Excavated 9 feet bgs in middle of excavation to reduce TPH measurements. Will sample tomorrow.

### Next Steps & Recommendations

1





# Daily Site Visit Report

## Site Photos

**Viewing Direction: Northeast**



South edge facing northwest. Site prior to work.

**Viewing Direction: North**



South edge facing north. Site prior to work.

**Viewing Direction: East**



West edge facing east. Site prior to work.

**Viewing Direction: East**



East side of excavation facing east. Mapped rectangle for further excavation of stained area with high chloride.



## Daily Site Visit Report

**Viewing Direction: East**



West side of excavation facing east. Mapped rectangle in central work area requiring further excavation due to TPH.

**Viewing Direction: Northwest**



East edge of excavation facing northwest. Excavated an additional 2 feet at east end.

**Viewing Direction: North**



Excavated to 10 feet bgs to adequate chloride measurements.

**Viewing Direction: West**



Excavated center of site to 9 feet bgs and will collect samples tomorrow.





## Daily Site Visit Report

Viewing Direction: North



Spoil pile and excavation at end of day.

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

A handwritten signature in black ink, appearing to be 'Lakin Pullman', written over a horizontal line.

Signature



## Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>4/15/2022</u>
Site Location Name:	<u>Avalanche Journal Battery</u>	Report Run Date:	<u>4/16/2022 1:09 AM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

### Summary of Times

Arrived at Site	<u>4/15/2022 7:46 AM</u>
Departed Site	<u>4/15/2022 4:25 PM</u>

### Field Notes

- 16:15** Completed safety paperwork on arrival. Treater was removed yesterday.
- 16:14** Wild West cleaned out bottom of pit excavation in preparation for liner.
- 16:18** Excavation to 10 feet bgs was cleaned out and continued west, stepped up to 8 feet bgs, to remove black staining. The worst staining has been removed.
- 16:19** Collected base and wall samples to confirm excavation is adequate. The south wall of the west excavation will need to be set back to clean soil.
- 16:20** 168 yards of material was hauled off.

### Next Steps & Recommendations

1



# Daily Site Visit Report



## Site Photos

**Viewing Direction: Northwest**



South edge facing northwest. Excavation upon arrival.

**Viewing Direction: North**



South edge facing north. Excavation upon arrival.

**Viewing Direction: Northeast**



South edge facing northeast. Excavation upon arrival.

**Viewing Direction: West**



South of excavation facing east. Wild West cleaned out pit excavation in preparation for liner.



## Daily Site Visit Report

**Viewing Direction: South**



South of excavation facing south. Treater was removed yesterday.

**Viewing Direction: Northeast**



Excavation at end of day.

**Viewing Direction: West**



Extended excavation to follow and remove black stained soil.

**Viewing Direction: East**



Extended excavation to remove black stained soil.

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

  
Signature





## Daily Site Visit Report

Client:	EOG Resources Inc.	Inspection Date:	4/18/2022
Site Location Name:	Avalanche Journal Battery	Report Run Date:	4/19/2022 1:28 AM
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	4/18/2022 11:00 AM
Departed Site	4/18/2022 5:18 PM

### Field Notes

- 16:55** Completed safety paperwork at office.
- 16:56** Collected 3 excavation wall samples at west end of 4-foot excavation in preparation for further excavation tomorrow.
- 16:57** Collected 9 excavation base samples at 4 feet bgs between north sidewall and middle excavation to confirm no further excavation is needed in that area.
- 17:20** Will continue to collected wall and base confirmation samples tomorrow.

### Next Steps & Recommendations

1

## Daily Site Visit Report



## Site Photos

Viewing Direction: Northwest



Collected WS22-43 and 44 from north wall at west end of excavation.

Viewing Direction: Southwest



Collected WS22-45 from south wall at west end of excavation.

Viewing Direction: East



Collected base samples at 4 feet bgs between north wall and central excavation.

Viewing Direction: Northeast



Collected base samples at 4 feet bgs between north wall and central excavation.





## Daily Site Visit Report

Viewing Direction: Northwest



Collected base samples at 4 feet bgs between north wall and central excavation.

Viewing Direction: Southwest



Will remove spoil pile and remaining material tomorrow and the next day.

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

A handwritten signature in black ink, appearing to be 'LP', written over a horizontal line. Below the line, the word 'Signature' is printed in a small, light font.



## Daily Site Visit Report

Client:	EOG Resources Inc.	Inspection Date:	4/19/2022
Site Location Name:	Avalanche Journal Battery	Report Run Date:	4/19/2022 11:50 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	4/19/2022 7:57 AM
Departed Site	4/19/2022 3:31 PM

### Field Notes

- 8:37** Completed safety paperwork on arrival. Marked west edge of ROE area needed for site access upon completion of excavation, in desert west of pad.
- 12:52** Removed 2 more excavator passes of material from south side of interior 8 feet bgs excavation. Completed: Sidewall field screenings were below threshold values.
- 12:54** Collected base samples between north sidewall and interior excavation on west side of 4-foot excavation.
- 13:24** Collected base samples between south 4-foot excavation sidewall and interior excavation.
- 15:11** Wild West removed the top layer of soil around the dry hole marker.
- 15:12** 144 yards of material removed today.

### Next Steps & Recommendations

- 1 Send confirmation samples to lab.

## Daily Site Visit Report



## Site Photos

Viewing Direction: Southwest



Removed loose material from pit in preparation for liner and backfill.

Viewing Direction: Northwest



Spoil pile and remaining area to excavate tomorrow.

Viewing Direction: Northwest



Material to remove from excavation at beginning of day, in addition to remaining soil to be excavated.

Viewing Direction: West



South side of west end of excavation in middle of greater excavation. South wall of west end high in chloride and will be extended south.





## Daily Site Visit Report

<p><b>Viewing Direction: Northwest</b></p>  <p>Completed west end of interior excavation to 8 feet bgs.</p>	<p><b>Viewing Direction: Southwest</b></p>  <p>Completed west end of interior excavation to 8 feet bgs.</p>
<p><b>Viewing Direction: West</b></p>  <p>Collected base samples between interior excavation and north side wall.</p>	<p><b>Viewing Direction: Northwest</b></p>  <p>Collected base samples between interior excavation and north side wall.</p>



## Daily Site Visit Report

Viewing Direction: South



Collected base samples between south sidewall and interior excavation.

Viewing Direction: West



East of dry hole marker, facing west. Removed top layer of soil around dry hole marker.

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

A handwritten signature in black ink, appearing to be 'LP', written over a horizontal line. Below the line, the word 'Signature' is printed in a small, light gray font.

Signature



## Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>4/20/2022</u>
Site Location Name:	<u>Avalanche Journal Battery</u>	Report Run Date:	<u>4/21/2022 12:04 AM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

### Summary of Times

Arrived at Site	<u>4/20/2022 7:55 AM</u>
Departed Site	<u>4/20/2022 3:52 PM</u>

### Field Notes

- 8:02** Completed safety paperwork on arrival.
- 12:10** Collected base excavation confirmation samples on west end of existing excavation, and excavation wall samples on fresh west edge.
- 15:13** Excavation wall sample WES22- 49 exceeded strictest NMOCD requirements. Wall was set back another 2 feet for fresh samples, which passed NMOCD requirements.
- 15:31** Will continue excavation and material removal tomorrow.

### Next Steps & Recommendations

- 1** Finish excavation of west edge, and haul away remaining material.
- 2** Submit confirmation samples for laboratory analysis.

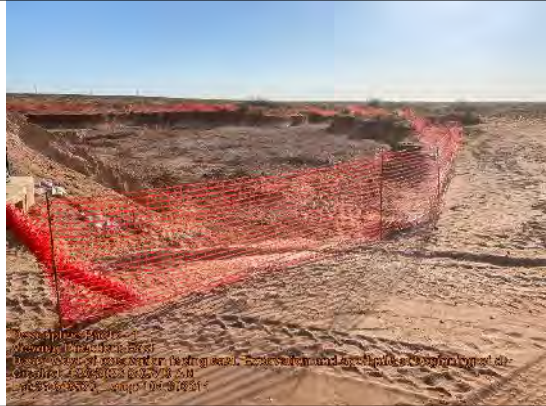


## Daily Site Visit Report



## Site Photos

Viewing Direction: East



West of excavation facing east. Excavation and spoil pile at beginning of day.

Viewing Direction: South



Northeast corner of excavation facing south. Excavation close to end of day.

Viewing Direction: Southwest



Northeast corner of excavation facing southwest. Excavation close to end of day.

Viewing Direction: West



Northeast corner of excavation facing west. Excavation close to end of day.



## Daily Site Visit Report

**Viewing Direction: Southwest**



North corner of excavation facing southeast.  
Excavation close to end of day.

**Viewing Direction: South**



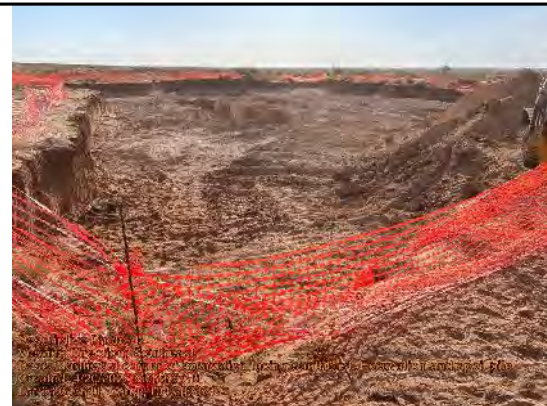
North corner of excavation facing south.  
Excavation close to end of day.

**Viewing Direction: East**



Northwest corner of excavation facing east.  
Excavation close to end of day.

**Viewing Direction: Southeast**



Northwest corner of excavation facing southeast. Excavation and spoil pile at beginning of day.





## Daily Site Visit Report

**Viewing Direction: North**



South of west end of excavation facing north.  
Spoil pile to remove.

**Viewing Direction: North**



South edge of excavation facing north.  
Collected base samples on west end of 4 foot excavation.

**Viewing Direction: South**



North edge of excavation facing south.  
Collected base samples on west end of 4 foot excavation.

**Viewing Direction: Northwest**



Collected wall sample from new excavation on southwest corner and west edge.



## Daily Site Visit Report

**Viewing Direction: Southwest**



West end of excavation facing southwest. Collected 4 foot wall samples from west edge. Walls were set back due to field screening results.

**Viewing Direction: Northwest**



Southwest corner facing northwest. Completed southwest portion of west edge of excavation with clean wall samples.

**Viewing Direction: West**



East end of excavation facing west. Excavation close to end of day.



## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

A handwritten signature in black ink, appearing to be 'Lakin Pullman', written over a horizontal line. Below the line, the word 'Signature' is printed in a small, light gray font.

Signature



## Daily Site Visit Report

Client:	EOG Resources Inc.	Inspection Date:	4/21/2022
Site Location Name:	Avalanche Journal Battery	Report Run Date:	4/21/2022 11:47 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	4/21/2022 7:47 AM
Departed Site	4/21/2022 3:53 PM

### Field Notes

- 8:09** Completed safety paperwork on arrival.
- 9:40** Removed paraffin material dumped on surface west of pad. Also removed residual material on surface west of pit.
- 11:33** Collected confirmation 4-foot excavation base samples on west end of excavation around spoil pile. Will need to remove pile to finish base sampling.
- 15:02** Collected 4-foot excavation wall samples from remaining excavation on west edge. Northwest portion was brought west further than planned due to TPH over NMOCD threshold. Current excavation walls meet requirements.
- 15:17** Excavation completed. Wall samples collected and have been or will be submitted for laboratory analysis.
- 15:43** Hauled majority of waste material, total of 240 yards today. Approximately 1 load (. 12 yards) remains on location. Spoke to Wild West and confirmed that they will remove the remaining material at next opportunity.

### Next Steps & Recommendations

- 1 Determine how many more samples are needed and collect them.



# Daily Site Visit Report

## Site Photos

**Viewing Direction: North**



West of pad facing north. Cleaned paraffin material on surface west of pad.

**Viewing Direction: Northwest**



Southwest corner facing northwest. Completed west edge of excavation. Some material remains to be removed.

**Viewing Direction: Southeast**



West of pad facing southeast. Cleaned paraffin material on surface west of pad.

**Viewing Direction: North**



South of pad facing north. Removed residual surface staining west of pit.





## Daily Site Visit Report

**Viewing Direction: Northwest**



South edge of excavation facing northwest. Collected base samples on west end of excavation around spoil pile.

**Viewing Direction: Southeast**



North edge of excavation facing southwest. Collected base samples on west end of excavation around spoil pile.

**Viewing Direction: East**



Facing east along wall between 4 and 5 foot excavation. Collected 5 foot excavation wall samples.

**Viewing Direction: West**



Inside excavation facing west. Completed west edge of excavation.





## Daily Site Visit Report

Viewing Direction: Southwest



Along north edge of excavation facing southwest. Completed west edge of excavation.

Viewing Direction: South



Northwest corner facing south. Completed west edge of excavation. Some material remains to be removed.

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

A handwritten signature in black ink, appearing to be 'LP', written over a horizontal line. Below the line, the word 'Signature' is printed in a small, light gray font.



## Daily Site Visit Report

Client:	EOG Resources Inc.	Inspection Date:	4/22/2022
Site Location Name:	Avalanche Journal Battery	Report Run Date:	4/22/2022 10:31 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	4/22/2022 9:15 AM
Departed Site	4/22/2022 2:20 PM

### Field Notes

- 9:26** Completed safety paperwork at office.
- 13:30** Wild West constructed 4 strand barbed wire fence around excavations exceeding 4 feet bgs in the morning.
- 13:31** Collected remaining confirmation base samples from west end of 4 foot excavation and bottom of 8 foot excavation.
- 13:32** Collected 5-7 foot excavation wall sample and 4-5 foot wall sample from west end of 5 foot excavation.
- 13:56** Field screening results did not exceed NMOCD requirements. Will submit confirmation samples to laboratory.
- 14:12** Approximately 12 yards (1 truck load) of contaminated material remains on site and will be removed next time trucks are on site.

### Next Steps & Recommendations

- 1 Submit samples to laboratory for analysis. Check laboratory results to confirm within NMOCD thresholds.

## Daily Site Visit Report



## Site Photos

Viewing Direction: Northeast



West of excavation facing northeast. Current state of completed excavation.

Viewing Direction: Southeast



West of excavation facing southeast. Current state of completed excavation.

Viewing Direction: Northwest



South edge of excavation facing northwest. Collected remaining base samples from west end of 4 foot excavation.

Viewing Direction: Southeast



Northwest corner of excavation facing southeast. Collected remaining base samples from west end of 4 foot excavation.





## Daily Site Visit Report

<p><b>Viewing Direction: East</b></p>  <p>Descriptive Photo - 6 Viewing Direction: East Desc: Inside 4 foot excavation facing east. Barbed wire fence installed around excavations exceeding 4 feet bgs. Created: 4/22/2022 1:20:14 PM Lat:33.046393, Long:-104.279929</p> <p>Inside 4 foot excavation facing east. Barbed wire fence installed around excavations exceeding 4 feet bgs.</p>	<p><b>Viewing Direction: Northeast</b></p>  <p>Descriptive Photo - 6 Viewing Direction: Northeast Desc: Southwest of 8 foot bgs excavation facing northeast. Collected remaining base samples from 8 foot bgs excavation. Created: 4/22/2022 1:20:17 PM Lat:33.046393, Long:-104.279929</p> <p>Southwest of 8 foot bgs excavation facing northeast. Collected remaining base samples from 8 foot bgs excavation.</p>
<p><b>Viewing Direction: Southwest</b></p>  <p>Descriptive Photo - 7 Viewing Direction: Southwest Desc: Northeast of 8 foot bgs excavation facing southwest. Collected remaining base samples from 8 foot bgs excavation. Created: 4/22/2022 1:20:20 PM Lat:33.046393, Long:-104.279929</p> <p>Northeast of 8 foot bgs excavation facing southwest. Collected remaining base samples from 8 foot bgs excavation.</p>	<p><b>Viewing Direction: Northeast</b></p>  <p>Descriptive Photo - 8 Viewing Direction: Northeast Desc: Inside west 10 foot excavation facing northeast. Collected remaining 7-10 foot wall excavation sample. Created: 4/22/2022 1:20:23 PM Lat:33.046393, Long:-104.279929</p> <p>Inside west 10 foot excavation facing northeast. Collected remaining 7-10 foot wall excavation sample.</p>



## Daily Site Visit Report

Viewing Direction: South



West end of excavation facing south. Collected remaining 4-5 foot wall excavation sample.

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

A handwritten signature in black ink, appearing to be 'LP', written over a horizontal line.

Signature



## Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>5/9/2022</u>
Site Location Name:	<u>Avalanche Journal Battery</u>	Report Run Date:	<u>5/9/2022 9:19 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

### Summary of Times

Arrived at Site	<u>5/9/2022 1:30 PM</u>
Departed Site	<u>5/9/2022 3:20 PM</u>

### Field Notes

- 13:42** Completed safety paperwork at office. Moved from Avalanche Journal State #1 to finish horizontal delineation of battery.
- 14:51** Collected samples from BH22-27 east of excavation to complete horizontal delineation of east edge.
- 14:53** Field screening results of BH22-27 were below NMOCD strictest criteria for chloride, VOC, and TPH. Samples packaged for laboratory analysis.

### Next Steps & Recommendations

1





## Daily Site Visit Report

### Site Photos

**Viewing Direction: West**



East of excavation facing west. Collected samples at BH22-27

**Viewing Direction: Northeast**



Southwest edge of excavation facing northeast.

**Viewing Direction: Southeast**



Northwest corner of excavation facing southeast.

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

  
Signature



## Daily Site Visit Report

Client:	EOG Resources Inc.	Inspection Date:	5/10/2022
Site Location Name:	Avalanche Journal Battery	Report Run Date:	5/11/2022 12:54 AM
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	5/10/2022 7:59 AM
Departed Site	5/10/2022 4:15 PM

### Field Notes

- 8:35** Completed safety paperwork on arrival. Marked areas for further excavation with flags. Area immediately north of 10-foot excavation planned to be extended to 6-feet bgs. West 10-foot excavation planned to be extended to 12-feet bgs.
- 16:01** Excavated to 6 feet bgs on east side as planned and extended east to remove staining. Field screening results were below NMOCD thresholds. Confirmation samples are packaged for laboratory.
- 16:03** Excavated to 12 feet bgs in central portion as planned. Field screening results were below NMOCD thresholds on west side and above on east side. Confirmation samples are packaged for laboratory for west side. East side around BES22-41 will need to be excavated further.

### Next Steps & Recommendations

- 1 Continue excavation at BES22-41.

# Daily Site Visit Report



## Site Photos

**Viewing Direction: Northwest**



East edge of excavation facing northwest. Marked area of excavation to 6 feet bgs with flags.

**Viewing Direction: Northeast**







East side of excavation facing east. Marked area of excavation to 6 feet bgs with flags.





## Daily Site Visit Report

<p><b>Viewing Direction: Southwest</b></p>  <p>Describe Photo - 4 Viewing Direction: Southwest Desc: East side of excavation facing southwest. Marked base of west 10-foot bgs excavation for further excavation to 12 feet bgs with flags. Created: 6/10/2022 4:12:35 AM Lat:33.048815, Long: -104.236735</p> <p>East side of excavation facing southwest. Marked base of west 10-foot bgs excavation for further excavation to 12 feet bgs with flags.</p>	<p><b>Viewing Direction: Northeast</b></p>  <p>Describe Photo - 4 Viewing Direction: Northeast Desc: West side of excavation facing northeast. Marked base of west 10-foot bgs excavation for further excavation to 12 feet bgs with flags. Created: 6/10/2022 5:07:07 AM Lat:33.048815, Long: -104.236735</p> <p>West side of excavation facing northeast. Marked base of west 10-foot bgs excavation for further excavation to 12 feet bgs with flags.</p>
<p><b>Viewing Direction: Northwest</b></p>  <p>Describe Photo - 5 Viewing Direction: West Desc: East edge of excavation facing west. Excavated to 6 feet and extended west to remove staining. Created: 6/10/2022 1:31:13 PM Lat:33.048815, Long: -104.236735</p> <p>East edge of excavation facing northwest. Excavated to 6 feet and extended west to remove staining.</p>	<p><b>Viewing Direction: East</b></p>  <p>Describe Photo - 5 Viewing Direction: East Desc: East side of excavation facing east. Excavated to 6 feet and extended west to remove staining. Created: 6/10/2022 3:04:10 PM Lat:33.048815, Long: -104.236735</p> <p>East side of excavation facing east. Excavated to 6 feet and extended west to remove staining.</p>



## Daily Site Visit Report

**Viewing Direction: Southwest**



East side of excavation facing southwest.  
Excavated to 12 feet bgs.

**Viewing Direction: East**



West side of excavation facing east. Excavated  
to 12 feet bgs.

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

A handwritten signature in black ink, appearing to be 'LP', written over a horizontal line. Below the line, the word 'Signature' is printed in a small, light font.



## Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>5/11/2022</u>
Site Location Name:	<u>Avalanche Journal Battery</u>	Report Run Date:	<u>5/12/2022 12:12 AM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

### Summary of Times

Arrived at Site	<u>5/11/2022 8:20 AM</u>
Departed Site	<u>5/11/2022 4:10 PM</u>

### Field Notes

- 8:37** Completed safety paperwork on arrival. Marked area within central 12-foot excavation for further soil removal to 14-15 feet due to high chloride and TPH.
- 14:55** Completed excavation to 15 feet bgs to remove hydrocarbon staining. Base and wall excavation sample field screening results were below NMOCD thresholds. Samples were packaged for laboratory analysis.
- 14:57** Excavation tentatively complete, pending confirmation sample laboratory results.
- 14:58** Waste material needs to be removed from site for disposal. Fence will be replaced around central excavation once spoil pile is removed.

### Next Steps & Recommendations

- 1 Remove contaminated material and replace fence around deep excavations.



# Daily Site Visit Report



## Site Photos

**Viewing Direction: East**



Inside central excavation facing northeast. Marked area for additional excavation.

**Viewing Direction: Southwest**



Northeast of central excavation facing southwest. Marked area for additional excavation.

**Viewing Direction: Northeast**



South of central excavation facing northeast. Completed excavation to 15 feet bgs.

**Viewing Direction: Southwest**



North of central excavation facing southwest. Completed excavation to 15 feet bgs.



## Daily Site Visit Report

Viewing Direction: North



East side of excavation facing north. Cleaned fallen material out of east 10-foot excavation.

Viewing Direction: East



West edge of excavation facing east. Waste material still needs removal.

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

A handwritten signature in black ink, appearing to be 'LP', written over a horizontal line.

Signature



## Daily Site Visit Report

Client:	EOG Resources Inc.	Inspection Date:	5/12/2022
Site Location Name:	Avalanche Journal Battery	Report Run Date:	5/12/2022 11:52 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	5/12/2022 11:28 AM
Departed Site	5/12/2022 3:35 PM

### Field Notes

- 11:35** Completed safety paperwork at neighboring site.
- 11:36** Wild West moved waste material from previous days excavation from excavation to trucks.
- 15:13** Approximately 144 yards of material was hauled from location today. The remaining material should be removed tomorrow.
- 15:24** Fence will be replaced tomorrow.

### Next Steps & Recommendations

- 1 Replace fence and remove remaining material.



# Daily Site Visit Report



## Site Photos

Viewing Direction: Northwest



South of excavation facing northwest. Material was moved to edge of excavation for loading to trucks.

Viewing Direction: East



West side of excavation facing east. Material was initially piled on the east side of the excavation.



## Daily Site Visit Report

<p><b>Viewing Direction: West</b></p>  <p>Describe Photo - 4 Viewing Direction: West Desc: East side of excavation facing northwest. Material was initially piled on the east side of the excavation. Created: 6/12/2022 3:11:28 PM Lat: 33.046705, Long: -104.210033</p> <p>East side of excavation facing northwest. Material was initially piled on the east side of the excavation.</p>	<p><b>Viewing Direction: East</b></p>  <p>Describe Photo - 4 Viewing Direction: East Desc: Center of excavation facing east. Moved remaining waste material to edge of excavation. Created: 6/12/2022 3:11:28 PM Lat: 33.046705, Long: -104.210033</p> <p>Center of excavation facing east. Moved remaining waste material to edge of excavation.</p>
<p><b>Viewing Direction: East</b></p>  <p>Describe Photo - 5 Viewing Direction: East Desc: West side of excavation facing east. Fence to be replaced tomorrow. Created: 6/12/2022 3:22:18 PM Lat: 33.046705, Long: -104.210167</p> <p>West side of excavation facing east. Fence to be replaced tomorrow.</p>	<p><b>Viewing Direction: West</b></p>  <p>Describe Photo - 6 Viewing Direction: West Desc: West side of excavation facing west. Moved remaining waste material to edge of excavation. Created: 6/12/2022 3:23:47 PM Lat: 33.046705, Long: -104.210445</p> <p>West side of excavation facing west. Moved remaining waste material to edge of excavation.</p>

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

A handwritten signature in black ink, appearing to be 'LP', written over a horizontal line.

Signature



## Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>5/13/2022</u>
Site Location Name:	<u>Avalanche Journal Battery</u>	Report Run Date:	<u>5/14/2022 12:40 AM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

### Summary of Times

Arrived at Site	<u>5/13/2022 8:00 AM</u>
Departed Site	<u>5/13/2022 11:00 AM</u>

### Field Notes

- 9:34** Completed safety paperwork on arrival.
- 10:13** Replaced fence around deep internal excavations to keep livestock out.
- 11:08** Removed remaining waste material. Prepared for backfill pending laboratory results.
- 15:21** Hauled 72 yards out today.

### Next Steps & Recommendations

1



# Daily Site Visit Report



## Site Photos

Viewing Direction: West



Center of excavation facing west. Material remaining to be removed at beginning of day.

Viewing Direction: Southeast



North of completed excavation facing southeast.

Viewing Direction: South



North of completed excavation facing south.

Viewing Direction: Southwest



North of completed excavation facing southwest.



## Daily Site Visit Report

Viewing Direction: West



East of completed excavation facing west.

Viewing Direction: West



East of completed excavation facing west.

Viewing Direction: East



East of completed excavation facing west.

Viewing Direction: Northwest



South of completed excavation facing northwest.





## Daily Site Visit Report

**Viewing Direction: Northeast**



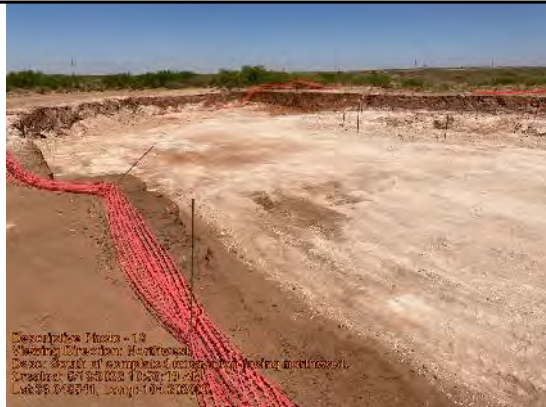
South of completed excavation facing northeast.

**Viewing Direction: North**



South of completed excavation facing north.

**Viewing Direction: Northwest**



South of completed excavation facing northwest.





**Viewing Direction: Southeast**



Northwest edge of excavation facing southeast. Replaced fence around internal excavations to keep livestock out.



## Daily Site Visit Report

<p><b>Viewing Direction: Northeast</b></p>  <p><small>Description: Photo - 3 Viewing Direction: Northeast Desc: West end of excavation facing northeast. Replaced fence around internal excavations to keep livestock out. Created: 6/15/2022 10:18:19 a.m. Lat: 33.048305, Long: -104.210590</small></p> <p>West end of excavation facing northeast. Replaced fence around internal excavations to keep livestock out.</p>	<p><b>Viewing Direction: Northwest</b></p>  <p><small>Description: Photo - 4 Viewing Direction: Northwest Desc: East end of excavation facing northwest. Replaced fence around internal excavations to keep livestock out. Created: 6/15/2022 10:11:15 a.m. Lat: 33.048305, Long: -104.210590</small></p> <p>East end of excavation facing northwest. Replaced fence around internal excavations to keep livestock out.</p>
<p><b>Viewing Direction: West</b></p>  <p><small>Description: Photo - 5 Viewing Direction: West Desc: East end of excavation facing west. Replaced fence around internal excavations to keep livestock out. Created: 6/15/2022 10:22:14 a.m. Lat: 33.048305, Long: -104.210590</small></p> <p>East end of excavation facing west. Replaced fence around internal excavations to keep livestock out.</p>	<p><b>Viewing Direction: West</b></p>  <p><small>Description: Photo - 6 Viewing Direction: West Desc: West side of excavation facing west. Removed remaining waste material. Created: 6/15/2022 10:27:33 a.m. Lat: 33.048305, Long: -104.210590</small></p> <p>West side of excavation facing west. Removed remaining waste material.</p>





## Daily Site Visit Report

**Viewing Direction: Southeast**



West of completed excavation facing southeast.

**Viewing Direction: East**



West of completed excavation facing east.

**Viewing Direction: Northeast**



West of completed excavation facing northeast.

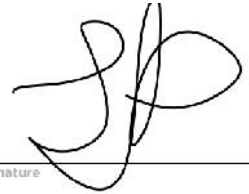
## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Lakin Pullman

**Signature:**

  
Signature

Vertex Resource Services Inc.  
2001 Timberloch Place Suite 500  
Houston, TX 77380

832-535-1585  
info@vertex.ca  
https://vertex.ca



### Soil Sampling Project Data

Client Name	EOG Resources Inc.
Client Contact	Chase Settle
Client Contact P#	575-703-6537
Reference #	22E-00347

Project Owner	Chase Settle
Project Manager	Michael Moffitt
Field Supervisor	Brandon Schafer
Unique Project ID	-Avalanche Journal Battery
Project Site Name	Avalanche Journal Battery

Project Start Date	
Project End Date	
Report Run Date	2/16/2022
API #	

### Sample Point Data

(Logged by: Lisa Roback)

Sample Point ID	BH22-01
Sample Point Lat	
Sample Point Long	

Well Top Elevation	
Total Depth	
Depth to Water	

UTM Zone (10-19)	
Drilling Company	Vertex Resource Services Inc
Drilling Method	Direct Push

Top (ft)

0

BH22-01 HZN-	BH22-01 0.0' [Logged by: Lisa Roback on 2/14/2022]															
	Sample Depth	Sample Type	Grab Count	% Major (>50%)	% Minor (10-40%)	% Trace (<10%)	Major Grain Size	Minor Grain Size	Moisture	Plasticity	Gradation	Color	VOC	TPH	EC	Chloride
	0.0	Discrete Sample		Sand (Coarse)	Silt (Fine)	Clay (Fine)	Fine	Medium	Dry	Non Plastic	Well Graded	Medium-Dark Brown	PID	PetroFlag	EC Probe	
	NOTES:												0	1156	0.7	
													PPM	PPM		PPM
	BH22-01 5.0' [Logged by: Lisa Roback on 2/14/2022]															
	Sample Depth	Sample Type	Grab Count	% Major (>50%)	% Minor (10-40%)	% Trace (<10%)	Major Grain Size	Minor Grain Size	Moisture	Plasticity	Gradation	Color	VOC	TPH	EC	Chloride
	5.0	Discrete Sample		Sand (Coarse)	Silt (Fine)	Clay (Fine)	Fine	Medium	Dry	Non Plastic	Well Graded	Medium Brown	PID	PetroFlag	EC Probe	
	NOTES:												0	93	1	
													PPM	PPM		PPM
	BH22-01 10.0' [Logged by: Lisa Roback on 2/14/2022]															
	Sample Depth	Sample Type	Grab Count	% Major (>50%)	% Minor (10-40%)	% Trace (<10%)	Major Grain Size	Minor Grain Size	Moisture	Plasticity	Gradation	Color	VOC	TPH	EC	Chloride
	10.0	Discrete Sample		Sand (Coarse)	Silt (Fine)	Clay (Fine)	Fine	Medium	Dry	Non Plastic	Well Graded	Medium Brown	PID	PetroFlag	EC Probe	
	NOTES:												0	120	6.9	
													PPM	PPM		PPM
	BH22-01 15.0' [Logged by: Lisa Roback on 2/14/2022]															
	Sample Depth	Sample Type	Grab Count	% Major (>50%)	% Minor (10-40%)	% Trace (<10%)	Major Grain Size	Minor Grain Size	Moisture	Plasticity	Gradation	Color	VOC	TPH	EC	Chloride
	15.0	Discrete Sample		Sand (Coarse)	Silt (Fine)	Clay (Fine)	Fine	Medium	Dry	Non Plastic	Well Graded	Light-Medium Brown	PID	PetroFlag	EC Probe	
	NOTES: Refusal												0	50	6.8	
													PPM	PPM		PPM



Bot. (ft)

Vertex Resource Services Inc.  
2001 Timberloch Place Suite 500  
Houston, TX 77380

832-535-1585  
info@vertex.ca  
https://vertex.ca



### Soil Sampling Project Data

Client Name	EOG Resources Inc.
Client Contact	Chase Settle
Client Contact P#	575-703-6537
Reference #	22E-00347

Project Owner	Chase Settle
Project Manager	Michael Moffitt
Field Supervisor	Brandon Schafer
Unique Project ID	-Avalanche Journal Battery
Project Site Name	Avalanche Journal Battery

Project Start Date	
Project End Date	
Report Run Date	2/16/2022
API #	

### Sample Point Data

(Logged by: Lisa Roback)

Sample Point ID	BH22-02
Sample Point Lat	
Sample Point Long	

Well Top Elevation	
Total Depth	
Depth to Water	

UTM Zone (10-19)	
Drilling Company	Vertex Resource Services Inc
Drilling Method	Direct Push

Top (ft)

0

BH22-02 HZN-	BH22-02 0.0' [Logged by: Lisa Roback on 2/14/2022]															
	Sample Depth	Sample Type	Grab Count	% Major (>50%)	% Minor (10-40%)	% Trace (<10%)	Major Grain Size	Minor Grain Size	Moisture	Plasticity	Gradation	Color	VOC	TPH	EC	Chloride
	0.0	Discrete Sample		Sand (Coarse)	Silt (Fine)	Clay (Fine)	Fine	Medium	Dry	Non Plastic	Well Graded	Medium-Dark Brown	PID	PetroFlag	EC Probe	
	NOTES:												0	1575	1.1	
													PPM	PPM		PPM
	BH22-02 5.0' [Logged by: Lisa Roback on 2/14/2022]															
	Sample Depth	Sample Type	Grab Count	% Major (>50%)	% Minor (10-40%)	% Trace (<10%)	Major Grain Size	Minor Grain Size	Moisture	Plasticity	Gradation	Color	VOC	TPH	EC	Chloride
	5.0	Discrete Sample		Sand (Coarse)	Silt (Fine)	Clay (Fine)	Fine	Medium	Dry	Non Plastic	Well Graded	Medium Brown	PID	PetroFlag	EC Probe	
	NOTES:												0	125	4.2	
													PPM	PPM		PPM
	BH22-02 10.0' [Logged by: Lisa Roback on 2/14/2022]															
	Sample Depth	Sample Type	Grab Count	% Major (>50%)	% Minor (10-40%)	% Trace (<10%)	Major Grain Size	Minor Grain Size	Moisture	Plasticity	Gradation	Color	VOC	TPH	EC	Chloride
	10.0	Discrete Sample		Sand (Coarse)	Silt (Fine)	Clay (Fine)	Fine	Medium	Dry	Non Plastic	Well Graded	Light-Medium Brown	PID	PetroFlag	EC Probe	
	NOTES:												0	197	5.8	
													PPM	PPM		PPM
	BH22-02 14.0' [Logged by: Lisa Roback on 2/14/2022]															
	Sample Depth	Sample Type	Grab Count	% Major (>50%)	% Minor (10-40%)	% Trace (<10%)	Major Grain Size	Minor Grain Size	Moisture	Plasticity	Gradation	Color	VOC	TPH	EC	Chloride
	14.0	Discrete Sample		Sand (Coarse)	Silt (Fine)	Clay (Fine)	Fine	Medium	Dry	Non Plastic	Well Graded	Light Brown	PID	PetroFlag	EC Probe	
	NOTES: Refusal												0	65	3.6	
													PPM	PPM		PPM

Bot. (ft)



# Daily Soil Sampling



**Client:** Client: EOG Resources Inc.

**Location:** Site: Avalanche Journal Battery

**Date:** (SD: 4/8/22)

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
WES22-01	4.0	0	18	0.11	21.3	47		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓		
WES22-02	4.0	0	11	0.36	20.5	443		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓		
WES22-03	4.0	0	20	0.09	20	75		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓		
WES22-04	4.0	0	17	0.12	19.8	126		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓		
WES22-05	4.0	0	15	0.27	19.6	352		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓		
WES22-07	4.0	0	18	0.06	23.4	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓		
WES22-08	4.0	0	31	0.06	22.9	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓		
WES22-09	4.0	0	14	0.05	22.7	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓		
WES22-10	4.0	0	11	0.06	22.3	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓		

# Daily Soil Sampling



WES22-11	4.0	0	18	0.08	22	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓		
WES22-12	4.0	0	17	0.18	25.5	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓		
WES22-13	4.0	0	18	0.07	25.4	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓		
WES22-14	4.0	0	22	0.11	25.6	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓		
WES22-15	4.0	0	29	0.14	25.6	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓		
WES22-16	4.0	0	44	0.18	25.5	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓		
WES22-19	4.0	0	15	0.32	21.4	346		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓		
WES22-20	4.0	0	17	0.09	22.1	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓		
WES22-21	4.0	0	13	0.10	22.2	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓		
WES22-22	4.0	0	23	0.42	23.8	386		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓		
WES22-23	4.0	0	19	0.21	24.2	66		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓		

# Daily Soil Sampling



**Client:** Client: EOG Resources Inc.

**Location:** Site: Avalanche Journal Battery

**Date:** (SD: 3/28/22)

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BH22-24	20.0			3.20	28.3	4204			✓	✓	
BH22-24	25.0			3.23	30.3	4161		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-24	30.0		53	3.08	28.9	4005				✓	
BH22-24	35.0		51	3.68	29	4866				✓	
BH22-24	50.0		70	0.63	28.7	477		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-25	20.0			1.45	34.4	1414				✓	
BH22-25	25.0			1.42	30.8	1526		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-25	30.0			1.03	30	998				✓	
BH22-25	35.0		39	0.55	30.1	301		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-25	40.0		45	0.56	31	277		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	

# Daily Soil Sampling



**Client:** Client: EOG Resources Inc.

**Location:** Site: Avalanche Journal Battery

**Date:** (SD: 2/23/22)

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BH22-04	0.0	1	1527	0.44	18.7	636		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH22-04	3.0	1	960	0.44	18.9	627		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH22-04	6.0	1	309	0.41	19.3	567		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH22-05	0.0	3		0.75	19.1	1066		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH22-05	3.0	1		1.08	18.6	1564		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH22-05	6.0	2		2.19	19.1	3144		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH22-06	0.0	1	95	0.05	18.7	73		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH22-06	3.0	1		0.75	18.6	1088		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH22-06	6.0	1		1.28	19.2	1827		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	



# Daily Soil Sampling



BH22-07	0.0	1	25	0.15	18.9	209		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH22-07	6.0	1	46	0.44	20.6	554		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH22-07	6.0	1		0.70	19	998		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	

# Daily Soil Sampling



**Client:** Client: EOG Resources Inc.

**Location:** Site: Avalanche Journal Battery

**Date:** (SD: 4/6/22)

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
WES22-01	4.0	0	16	0.11	21.3	47					
WES22-02	4.0	0	9	0.36	20.5	443					
WES22-03	4.0	0	18	0.09	20	75					
WES22-04	4.0	0	15	0.12	19.8	126					
WES22-05	4.0	0	16	0.27	19.6	352					
WES22-06	4.0			1.36	17.4	2020					
WES22-07	4.0	0	19	0.06	23.4	0					
WES22-08	4.0	0	32	0.06	22.9	0					
WES22-09	4.0	0	17	0.05	22.7	0					
WES22-10	4.0	0	14	0.06	22.3	0					
WES22-11	4.0	0	15	0.08	22	0					
WES22-12	4.0	0	16	0.18	22.5	96					
WES22-13	4.0	0	18	0.07	25.4	0					
WES22-14	4.0	0	22	0.11	25.6	0					
WES22-15	4.0	0	29	0.14	25.6	0					
WES22-16	4.0	0	44	0.18	25.5	0					

# Daily Soil Sampling



**Client:** Client: EOG Resources Inc.

**Location:** Site: Avalanche Journal Battery

**Date:** (SD: 3/3/22)

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BH22-17	0.0	0	81	0.05	22.3	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-17	2.0	0	20	0.07	19.6	63		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-17	4.0	0	23	0.50	20.8	632		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-18	0.0	0	18	0.16	21.3	119		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-18	2.0	0	33	1.23	21.1	1672		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-18	4.0	0	45	2.74	21.1	3852		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-20	0.0	0	1069	0.17	21.2	138		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-20	2.0	0	23	0.11	21.2	51		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-20	4.0	0	30	0.12	20.3	105		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	

# Daily Soil Sampling



**Client:** Client: EOG Resources Inc.

**Location:** Site: Avalanche Journal Battery

**Date:** (SD: 2/24/22)

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BH22-08	0.0	0	420	0.07	16	219		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH22-08	3.0	0	25	1.15	16	1778		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH22-08	6.0	0	11	2.46	16	3668		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH22-09	0.0	0	191	0.83	16	1316		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH22-09	3.0	0	41	0.45	16	767		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH22-09	6.0	0	12	0.46	16	782		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH22-10	0.0	0	90	0.05	16.3	177		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH22-10	3.0	0	47	0.11	16	277		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH22-10	6.0	0	27	0.14	16	320		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	



# Daily Soil Sampling



BH22-11	0.0	0	1092	0.09	16	248		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH22-11	3.0	0	332	0.20	16	406		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	
BH22-11	6.0	0	368	0.21	16	421		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)		✓	

# Daily Soil Sampling



**Client:** Client: EOG Resources Inc.

**Location:** Site: Avalanche Journal Battery

**Date:** (SD: 3/4/22)

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BH22-19	0.0	0	46	0.03	23.5	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-19	2.0	0	23	0.06	23.1	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-19	4.0	0	30	0.47	22.7	506		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-21	0.0	0	24	0.06	22.6	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-21	2.0	0	38	0.30	22.5	269		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-21	4.0	0	49	1.86	22.6	2517		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-22	0.0	0	989	0.15	20.9	122		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-22	2.0	0	38	0.81	21.7	1040		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-22	4.0	0	21	1.66	21.9	2258		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	

# Daily Soil Sampling



BH22-23	0.0	0	23	0.11	22	17		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-23	2.0	0	21	0.16	22.2	80		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-23	4.0	0	21	0.12	22.3	18		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	

# Daily Soil Sampling



**Client:** Client: EOG Resources Inc.

**Location:** Site: Avalanche Journal Battery

**Date:** (SD: 3/2/22)

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BH22-12	0.0	0	1117	0.54	24.2	542		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-12	2.0	0	20	2.70	25.4	3608		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-12	4.0	0	48	2.30	25.6	3022		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-13	0.0	0	49	0.06	25.2	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-13	2.0	0	9	0.06	24.7	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-13	4.0	0	14	0.09	24.8	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-14	0.0	0	12	0.15	25.4	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-14	2.0	0	36	0.99	27	1070		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-14	4.0	0	45	1.60	26.7	1964		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	



# Daily Soil Sampling



BH22-15	0.0	0	13	0.10	26.7	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-15	2.0	0	29	0.74	25.9	757		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-15	4.0	0	24	0.68	25.8	675		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-16	0.0	0	3	0.09	26.5	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-16	2.0	0	21	0.13	26.5	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-16	4.0	0	48	0.40	23.5	370		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	✓	✓	

# Daily Soil Sampling



**Client:** Client: EOG Resources Inc.

**Location:** Site: Avalanche Journal Battery

**Date:** (SD: 4/11/22)

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-01		1	16	0.80	26.4	822		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-02	4.0	1	15	0.10	25.7	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-03	4.0	1	18	0.10	25.9	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-04	4.0	1	19	0.80	26	839		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-05	4.0	1	18	0.80	26.5	818		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-06	4.0	0	19	0.10	27.1	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-07	4.0	0	22	0.10	27	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-08	4.0	0	22	0.07	26.6	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-24	4.0	0	23	0.23	22.3	177		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	

# Daily Soil Sampling



WES22-25	4.0	0	16	0.38	21.4	432		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-26	4.0	1	42	0.10	24	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-27	4.0	1	69	0.58	24.1	604			✓	✓	

# Daily Soil Sampling



**Client:** Client: EOG Resources Inc.

**Location:** Site: Avalanche Journal Battery

**Date:** (SD: 4/18/22)

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-51	4.0	1	919	3.48	23.4	4820			✓	✓	
BES22-52	4.0	1	497	1.48	25	1864			✓	✓	
BES22-53	0.8	4	280	1.84	24.8	2392			✓	✓	
BES22-54	4.0	1	140	1.71	24.8	2205			✓	✓	
BES22-55	4.0	1	2470	2.64	24.6	3556			✓	✓	
BES22-56	4.0	2	124	3.93	24.5	5422			✓	✓	
BES22-57	4.0	1	116	6.52	24.2	9173			✓	✓	
BES22-58	4.0	1	1024	5.22	23.7	7318			✓	✓	
BES22-58	4.0	1	2330	1.79	23.9	2359			✓	✓	
WES22-43	4.0	0	16	0.07	24.1	0			✓	✓	
WES22-44	4.0	0	17	0.08	24	0			✓	✓	
WES22-45	4.0	1	37	0.09	23.7	0			✓	✓	

# Daily Soil Sampling



**Client:** Client: EOG Resources Inc.

**Location:** Site: Avalanche Journal Battery

**Date:** (SD: 4/15/22)

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-41	9.0	103	12630	7.26	23.2	10284		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-41	10.0	138	1186	5.93	32.2	7975		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-42	10.0	58	2850	6.10	32.2	8221		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-46	7.0	0	92	5.99	23.3	8447		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-47	4.0	0	144	6.95	32.2	9447		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-48	10.0	0	79	3.12	32.2	3919		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-49	8.0	3	110	6.40	34.3	8563		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-50	8.0	1	42	5.42	34.5	7139		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-33	7.0	0	80	5.15	22.7	7261		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	



# Daily Soil Sampling



WES22-34	7.0	40	40	5.14	23.1	7229		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-35	7.0	0	59	5.08	31.5	6779		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-36	10.0	5	2320	5.34	31.5	7154		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-37	10.0	0	71	5.69	31.8	7646		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-38	10.0	0	200	1.70	31.3	1909		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-39	8.0	1	48	2.66	34.3	3165		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-40	8.0	5	2460	5.79	34.1	7691		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-41	8.0	3	640	11.70	34	16225		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-42	10.0	2	46	3.41	33.9	4264		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	

# Daily Soil Sampling



**Client:** Client: EOG Resources Inc.

**Location:** Site: Avalanche Journal Battery

**Date:** (SD: 4/12/22)

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-09	5.0	0	41	2.69	28.4	3463		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-10	5.0	1	32	4.99	27.6	6818		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-11	5.0	1	27	2.07	27.9	2590		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-12	5.0	7	1121	5.98	28.8	8195		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-13	5.0	4		8.60	28.7	11980		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)		✓	
BES22-14	5.0	4		9.29	27.7	13019		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)		✓	
BES22-15	5.0	1	60	4.26	27.5	5768		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-16	5.0	1	69	6.19	27.3	8563		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-17	5.0	1	62	4.50	29.6	6024		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	

# Daily Soil Sampling



BES22-18	5.0	1	364	4.33	29.3	5791		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-19	5.0	1	248	2.64	29.2	3357		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-20	5.0	1	28	1.58	29.2	1827		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-28	4.0	0	55	0.10	22.4	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	

# Daily Soil Sampling



**Client:** Client: EOG Resources Inc.

**Location:** Site: Avalanche Journal Battery

**Date:** (SD: 4/13/22)

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-24	4.0	0	41	0.66	19.5	919		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-25	4.0	1	46	0.38	18.6	554		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-26	4.0	1	29	0.11	18.7	160		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-27	4.0	1	43	0.11	18.9	151		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-28	4.0	1	52	0.12	17.8	213		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-29	4.0	1	78	0.38	17.7	593		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-30	4.0	0	50	0.12	17.7	217		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-31	4.0	1	82	0.19	18.3	292		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-32	4.0	0	661	1.17	18.3	1707		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	

# Daily Soil Sampling



BES22-33	4.0	1	413	0.26	18.5	385		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-34	4.0	0	250	3.00	18.5	4339		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-35	4.0	1	130	1.68	18.6	2430		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-36	4.0	0	262	2.42	17.8	3533		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-37	4.0	1	546	0.50	18	753		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-38	5.0	1	143	3.52	18.3	5099		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-39	4.0	0	72	2.42	18.1	3520		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-40	5.0	11		2.29	17.6	3354		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-41	5.0	59	1710	4.35	18	6310		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-42	5.0	77	1599	5.46	17.7	7925		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-43	5.0	11	1258	1.97	17.9	2879		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	



# Daily Soil Sampling



**Client:** Client: EOG Resources Inc.

**Location:** Site: Avalanche Journal Battery

**Date:** (SD: 4/14/22)

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-13	7.0	1	197	7.90	21.4	11286		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-13	9.0	0		6.93	24.7	9743		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-13	10.0	0	51	3.77	26.9	5087		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-14	7.0	1	481	8.60	21.4	12296		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-14	9.0	0		8.05	24.9	11351		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-14	10.0	0	39	3.49	26.6	4696		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-40	7.0	0	26	6.02	26	8373		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-45	7.0	1	40	6.62	25.7	9252		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-29	7.0	0	393	6.28	21.6	8939		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	

# Daily Soil Sampling



WES22-29	9.0	0						BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)		✓	
WES22-29	10.0	0	58	3.82	26.6	5172		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-30	7.0	0	195	7.04	21.4	10045		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-30	9.0							BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-30	10.0	0	92	3.91	27	5285		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-31	9.0	1						BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-31	10.0	0	276	4.80	25.9	6617		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-32	9.0	0						BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-32	10.0	0	48	6.57	25.6	9185		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	

# Daily Soil Sampling



**Client:** Client: EOG Resources Inc.

**Location:** Site: Avalanche Journal Battery

**Date:** (SD: 4/22/22)

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-90	4.0	1	274	0.22	26.8	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-91	4.0	1	20	4.04	26.4	5498		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-92	4.0	1	96	0.20	27.5	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-93	8.0	1	78	1.67	25.6	2112		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-94	8.0	1	24	5.45	26.8	7516		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-61	10.0	1	348	2.16	30.7	2599		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-62	5.0	1	59	2.41	26.4	3146		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	

# Daily Soil Sampling



**Client:** Client: EOG Resources Inc.

**Location:** Site: Avalanche Journal Battery

**Date:** (SD: 4/19/22)

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-60	4.0	1	18	0.25	22.1	215			✓	✓	
BES22-61	4.0	1	66	0.87	22	1114			✓	✓	
BES22-62	4.0	1	281	1.03	22	1345			✓	✓	
BES22-63	4.0	1	63	2.18	21.8	3013			✓	✓	
BES22-64	4.0	12	2350	5.10	23.9	7137			✓	✓	
BES22-65	4.0	2	857	2.97	23.9	4062			✓	✓	
BES22-66	4.0	1	72	4.68	26	6439			✓	✓	
BES22-67	4.0	2	51	3.06	25.8	4110			✓	✓	
BES22-68	4.0	2	179	1.36	25.6	1665			✓	✓	
BES22-69	4.0	2	293	0.28	26	89			✓	✓	
BES22-70	4.0	2	172	5.23	28.9	7108			✓	✓	
BES22-71	4.0	2	107	4.46	28.5	6014			✓	✓	
WES22-46	8.0	6		7.19	16.4	10478			✓	✓	
WES22-47	8.0	1	13	4.00	17	5848			✓	✓	

# Daily Soil Sampling



**Client:** Client: EOG Resources Inc.

**Location:** Site: Avalanche Journal Battery

**Date:** (SD: 4/21/22)

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-82	4.0	1	32	0.20	27.7	0			✓	✓	
BES22-83	4.0	2	173	0.72	28.1	633			✓	✓	
BES22-84	4.0	3	429	1.70	28.1	2048			✓	✓	
BES22-85	4.0	1	42	0.96	36.5	616			✓	✓	
BES22-86	4.0	1	66	0.58	36.4	72			✓	✓	
BES22-87	4.0	1	55	2.73	36.1	3188			✓	✓	
BES22-88	4.0	1	26	0.71	36.1	272			✓	✓	
BES22-89	4.0	1	45	3.13	34.2	3847			✓	✓	
WES22-53	4.0	2	23	0.16	26.5	0			✓	✓	
WES22-54	5.0	1	280	1.84	37.7	1834			✓	✓	
WES22-55	4.0	1	59	1.40	37.7	1199			✓	✓	
WES22-56	5.0	1	46	3.29	37.6	3931			✓	✓	
WES22-57	4.0	1	166	0.91	36	565			✓	✓	
WES22-58	4.0	1	30	0.26	29.5	0			✓	✓	
WES22-59	4.0	1	25	0.43	28.9	180			✓	✓	



# Daily Soil Sampling



**Client:** Client: EOG Resources Inc.

**Location:** Site: Avalanche Journal Battery

**Date:** (SD: 4/20/22)

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-72	4.0	1	83	2.93	23.6	4018			✓	✓	
BES22-73	4.0	0	36	1.52	23.1	2004			✓	✓	
BES22-74	4.0	0	285	4.25	23.1	5944			✓	✓	
BES22-75	4.0	3	1001	2.95	23.3	4059			✓	✓	
BES22-76	4.0	7	1700	3.65	26.2	4944			✓	✓	
BES22-77	4.0	2	105	0.25	28.3	0			✓	✓	
BES22-78	4.0	2	73	1.13	28.8	1195			✓	✓	
BES22-79	4.0	4	258	3.08	28.5	4022			✓	✓	
BES22-80	4.0	7	1850	5.00	30.3	6715			✓	✓	
BES22-81	4.0	1	109	3.12	29.5	4036			✓	✓	
WES22-48	4.0	0	27	0.07	28.7	0			✓	✓	
WES22-49	4.0	1	147	0.61	39.1	0			✓	✓	
WES22-50	4.0	1	18	0.18	38.5	0			✓	✓	
WES22-51	4.0	1	29	0.09	40.4	0			✓	✓	
WES22-52	4.0	0	27	0.07	39.9	0			✓	✓	

# Daily Soil Sampling



**Client:** Client: EOG Resources Inc.

**Location:** Site: Avalanche Journal Battery

**Date:** (SD: 5/9/22)

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BH22-27	0.0	0	65	0.13	36	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BH22-27	2.0	1	39	0.04	35.9	0		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	

# Daily Soil Sampling



**Client:** Client: EOG Resources Inc.

**Location:** Site: Avalanche Journal Battery

**Date:** (SD: 5/10/22)

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-12	6.0	0	41	0.84	36.4	447		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-17	6.0	1	62	2.40	36.2	2707		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-41	12.0	366	9700	7.95	39.8	10562			✓	✓	
BES22-42	12.0	0	156	1.90	35.2	2029		Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-48	12.0	1	66	3.09	35.8	3720		Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-31	10.0	0	189	3.86	36.4	4806		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-38	12.0	0	135	2.19	34.7	2469		Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-42	12.0	1	132	2.83	34.9	3384		Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-63	6.0	0	37	1.66	36.9	1609		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-64	6.0	0	47	2.54	36.7	2888		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	

# Daily Soil Sampling



**Client:** Client: EOG Resources Inc.

**Location:** Site: Avalanche Journal Battery

**Date:** (SD: 5/11/22)

Sampling											
		Field Screening							Data Collection		
		Hydrocarbon		Chloride							
Sample ID	Depth (ft)	VOC (PID)	TPH (ppm)	EC Reading (mS/cm)	Temp (°C)	EC Chloride (ppm)	Chloride Titration (ppm)	Lab Analysis	Photo Taken	Marked on Sketch	Refusal Depth (ft)
BES22-41	15.0	1	40	5.45	34.9	7165		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
BES22-95	15.0	2	21	4.69	34.9	6069		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-36	12.0	0	30	4.84	33.2	6359		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-37	12.0	0	31	2.89	33.9	3514		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-61	15.0	1	25	2.47	32.8	2955		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-65	15.0	1	23	4.29	33.2	5565		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-66	15.0	0	850	3.01	34.6	3657		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	
WES22-67	15.0	0	33	4.74	34.9	6141		BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW-4500 Cl), TPH (EPA SW-846 Method 8015M)	✓	✓	

## **ATTACHMENT 5**



Client Name: EOG Resources, Inc.

Site Name: Avalanche Journal State Battery

NM OCD Tracking #: nAPP2207560537

Project #: 22E-00347

Lab Reports: 2202764, 2202900, 2202B33, 2202C06, 2203353, 2203507, 2203747, 2203F67, and 2205481

Table 3. Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater 50-100 feet bgs													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (Petroflag)	Chloride Concentration	Volatile		Extractable					
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH22-01	0	February 14, 2022	0	1,156	-	ND	ND	ND	880	1300	880	2180	780
	5	February 14, 2022	0	93	-	ND	ND	ND	ND	ND	ND	ND	1,000
	10	February 14, 2022	0	120	-	ND	ND	ND	ND	ND	ND	ND	10,000
	15	February 14, 2022	0	50	-	ND	ND	ND	ND	ND	ND	ND	10,000
	17	February 16, 2022	-	-	-	ND	ND	ND	ND	ND	ND	ND	6,700
BH22-02	0	February 14, 2022	0	1,575	-	ND	ND	ND	310	490	310	800	1,100
	5	February 14, 2022	0	125	-	ND	ND	ND	ND	ND	ND	ND	5,500
	10	February 14, 2022	0	197	-	ND	ND	ND	12	ND	12	12	6,700
	14	February 14, 2022	0	65	-	ND	ND	ND	ND	ND	ND	ND	5,300
BH22-03	0	February 16, 2022	-	-	-	ND	ND	ND	38	120	38	158	130
BH22-04	0	February 22, 2022	1	1,527	636	ND	ND	ND	200	490	200	690	420
	3	February 22, 2022	1	960	627	ND	ND	ND	94	440	94	534	260
	6	February 22, 2022	1	309	567	ND	ND	ND	21	56	21	77	270
BH22-05	0	February 22, 2022	3	-	1,066	ND	ND	ND	1900	2600	1900	4500	1,000
	3	February 22, 2022	1	-	1,564	ND	ND	ND	170	300	170	470	2,700
	6	February 22, 2022	2	-	3,144	ND	ND	ND	300	620	300	920	2,500
BH22-06	0	February 22, 2022	1	95	73	ND	ND	ND	ND	ND	ND	ND	ND
	3	February 22, 2022	1	-	1,088	ND	ND	ND	ND	ND	ND	ND	580
	6	February 22, 2022	1	-	1,827	ND	ND	ND	ND	ND	ND	ND	1,400
BH22-07	0	February 22, 2022	1	25	209	ND	ND	ND	ND	ND	ND	ND	61
	3	February 22, 2022	1	46	554	ND	ND	ND	ND	ND	ND	ND	470
	6	February 22, 2022	1	-	998	ND	ND	ND	ND	ND	ND	ND	990
BH22-08	0	February 23, 2022	0	420	219	ND	ND	ND	9.8	69	9.8	78.8	ND
	3	February 23, 2022	0	25	1,778	ND	ND	ND	ND	ND	ND	ND	1,300
	6	February 23, 2022	0	11	3,668	ND	ND	ND	ND	ND	ND	ND	3,000
BH22-09	0	February 23, 2022	0	191	1,316	ND	ND	ND	ND	ND	ND	ND	1,200
	3	February 23, 2022	0	41	767	ND	ND	ND	ND	ND	ND	ND	ND
	6	February 23, 2022	0	12	782	ND	ND	ND	ND	ND	ND	ND	88
BH22-10	0	February 23, 2022	0	90	177	ND	ND	ND	ND	ND	ND	ND	ND
	3	February 23, 2022	0	47	277	ND	ND	ND	ND	ND	ND	ND	ND
	6	February 23, 2022	0	27	320	ND	ND	ND	ND	ND	ND	ND	ND
BH22-11	0	February 23, 2022	0	1,092	248	ND	ND	ND	1900	2000	1900	3900	ND
	3	February 23, 2022	0	332	406	ND	ND	ND	29	ND	29	29	ND
	6	February 23, 2022	0	368	421	ND	ND	ND	210	250	210	460	ND
BH22-12	0	March 2, 2022	0	1,117	542	ND	ND	ND	1200	2400	1200	3600	680
	2	March 2, 2022	0	20	3,608	ND	ND	ND	ND	ND	ND	ND	2,700
	4	March 2, 2022	0	48	3,022	ND	ND	ND	ND	ND	ND	ND	2,600
BH22-13	0	March 2, 2022	0	49	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2	March 2, 2022	0	9	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4	March 2, 2022	0	14	ND	-	-	-	-	-	-	-	-
BH22-14	0	March 2, 2022	0	12	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2	March 2, 2022	0	36	1,070	ND	ND	ND	ND	ND	ND	ND	940
	4	March 2, 2022	0	45	1,964	ND	ND	ND	ND	ND	ND	ND	1,600
BH22-15	0	March 2, 2022	0	13	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2	March 2, 2022	0	29	757	ND	ND	ND	ND	ND	ND	ND	840
	4	March 2, 2022	0	24	675	-	-	-	-	-	-	-	-
BH22-16	0	March 2, 2022	0	3	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2	March 2, 2022	0	21	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4	March 2, 2022	0	48	370	-	-	-	-	-	-	-	-

Client Name: EOG Resources, Inc.

Site Name: Avalanche Journal State Battery

NM OCD Tracking #: nAPP2207560537

Project #: 22E-00347

Lab Reports: 2202764, 2202900, 2202B33, 2202C06, 2203353, 2203507, 2203747, 2203F67, and 2205481

Table 3. Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater 50-100 feet bgs													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds	Extractable Organic Compounds (petroFlag)	Chloride Concentration	Volatile		Extractable					
						Benzene	BTEX (Total)	Gasoline Range Organics	Diesel Range Organics	Motor Oil Range Organics	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
BH22-17	0	March 3, 2022	0	81	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2	March 3, 2022	0	20	63	ND	ND	ND	ND	ND	ND	ND	ND
	4	March 3, 2022	0	23	632	-	-	-	-	-	-	-	-
BH22-18	0	March 3, 2022	0	18	119	ND	ND	ND	ND	ND	ND	ND	95
	2	March 3, 2022	0	33	1,672	ND	ND	ND	ND	ND	ND	ND	1,500
	4	March 3, 2022	0	45	3,852	ND	ND	ND	ND	ND	ND	ND	4,000
BH22-19	0	March 4, 2022	0	46	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2	March 4, 2022	0	23	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4	March 4, 2022	0	30	506	-	-	-	-	-	-	-	-
BH22-20	0	March 3, 2022	0	1,069	138	ND	ND	ND	310	1700	310	2010	ND
	2	March 3, 2022	0	23	51	ND	ND	ND	ND	ND	ND	ND	ND
	4	March 3, 2022	0	30	105	-	-	-	-	-	-	-	-
BH22-21	0	March 4, 2022	0	24	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2	March 4, 2022	0	38	269	ND	ND	ND	ND	ND	ND	ND	540
	4	March 4, 2022	0	49	2,517	-	-	-	-	-	-	-	-
BH22-22	0	March 4, 2022	0	989	122	ND	ND	ND	670	1900	670	2570	150
	2	March 4, 2022	0	38	1,040	ND	ND	ND	ND	ND	ND	ND	520
	4	March 4, 2022	0	21	2,258	-	-	-	-	-	-	-	-
BH22-23	0	March 4, 2022	0	23	17	ND	ND	ND	ND	ND	ND	ND	ND
	2	March 4, 2022	0	21	80	ND	ND	ND	ND	ND	ND	ND	ND
	4	March 4, 2022	0	21	18	ND	ND	ND	ND	ND	ND	ND	ND
BH22-24	20	March 28, 2022	0.5	-	4,204	-	-	-	-	-	-	-	-
	25	March 28, 2022	-	-	4,161	ND	ND	ND	ND	ND	ND	ND	3,000
	30	March 28, 2022	-	53	4,005	-	-	-	-	-	-	-	-
	35	March 28, 2022	-	51	4,866	-	-	-	-	-	-	-	-
	50	March 28, 2022	-	70	477	ND	ND	ND	ND	ND	ND	ND	590
BH22-25	20	March 28, 2022	-	-	1,414	-	-	-	-	-	-	-	-
	25	March 28, 2022	-	-	1,526	ND	ND	ND	ND	ND	ND	ND	1,600
	30	March 28, 2022	-	-	998	-	-	-	-	-	-	-	-
	35	March 28, 2022	-	39	301	ND	ND	ND	ND	ND	ND	ND	440
	40	March 28, 2022	-	45	277	-	-	-	-	-	-	-	-
BH22-27	0	May 9, 2022	0.4	65	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2	May 9, 2022	0.6	39	ND	ND	ND	ND	ND	ND	ND	ND	ND

"ND" Not Detected at the Reporting Limit

"-." indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NM OCD Closure Criteria (on-pad)

Client Name: EOG Resources, Inc.

Site Name: Avalanche Journal State Battery

NM OCD Tracking #: nAPP2207560537

Project #: 22E-00347

Lab Reports: 2204537, 2204559, 2204626, 2204852, 2204988, and 2204A38

Table 4. Reclamation Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic Chloride
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride (calculated from electroconductivity)	Volatile		Extractable					
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
WES22-01	0-4	April 8, 2022	0	18	47	ND	ND	ND	ND	ND	ND	ND	ND
WES22-02	0-4	April 8, 2022	0	11	443	ND	ND	ND	ND	ND	ND	ND	230
WES22-03	0-4	April 8, 2022	0	20	75	ND	ND	ND	ND	ND	ND	ND	ND
WES22-04	0-4	April 8, 2022	0	17	126	ND	ND	ND	ND	ND	ND	ND	ND
WES22-05	0-4	April 8, 2022	0	15	352	ND	ND	ND	ND	ND	ND	ND	79
WES22-07	0-4	April 8, 2022	0	18	ND	ND	ND	ND	ND	ND	ND	ND	ND
WES22-08	0-4	April 8, 2022	0	31	ND	ND	ND	ND	ND	ND	ND	ND	ND
WES22-09	0-4	April 8, 2022	0	14	ND	ND	ND	ND	ND	ND	ND	ND	ND
WES22-10	0-4	April 8, 2022	0	11	ND	ND	ND	ND	ND	ND	ND	ND	ND
WES22-11	0-4	April 8, 2022	0	18	ND	ND	ND	ND	ND	ND	ND	ND	ND
WES22-12	0-4	April 8, 2022	0	17	96	ND	ND	ND	ND	ND	ND	ND	68
WES22-13	0-4	April 8, 2022	0	18	ND	ND	ND	ND	ND	ND	ND	ND	ND
WES22-14	0-4	April 8, 2022	0	22	ND	ND	ND	ND	ND	ND	ND	ND	ND
WES22-15	0-4	April 8, 2022	0	29	ND	ND	ND	ND	ND	ND	ND	ND	ND
WES22-16	0-4	April 8, 2022	0	44	ND	ND	ND	ND	ND	ND	ND	ND	ND
WES22-19	0-4	April 8, 2022	0	15	346	ND	ND	ND	ND	ND	ND	ND	150
WES22-20	0-4	April 8, 2022	0	17	ND	ND	ND	ND	ND	ND	ND	ND	ND
WES22-21	0-4	April 8, 2022	0	13	ND	ND	ND	ND	ND	ND	ND	ND	ND
WES22-22	0-4	April 8, 2022	0	23	386	ND	ND	ND	ND	ND	ND	ND	96
WES22-23	0-4	April 8, 2022	0	19	66	ND	ND	ND	ND	ND	ND	ND	ND
WES22-24	0-4	April 11, 2022	0.1	23	177	ND	ND	ND	ND	ND	ND	ND	110
WES22-25	0-4	April 11, 2022	0.5	16	432	ND	ND	ND	ND	ND	ND	ND	220
WES22-26	0-4	April 11, 2022	0.8	42	ND	ND	ND	ND	ND	ND	ND	ND	ND
WES22-28	0-4	April 12, 2022	0.5	55	ND	ND	ND	ND	ND	ND	ND	ND	ND
WES22-43	0-4	April 18, 2022	0.1	16	ND	ND	ND	ND	ND	ND	ND	ND	ND
WES22-44	0-4	April 18, 2022	0.2	17	ND	ND	ND	ND	ND	ND	ND	ND	ND
WES22-45	0-4	April 18, 2022	0.7	37	ND	ND	ND	ND	ND	ND	ND	ND	ND
WES22-48	0-4	April 20, 2022	0.4	27	ND	ND	ND	ND	ND	ND	ND	ND	ND
WES22-51	0-4	April 20, 2022	0.8	29	ND	ND	ND	ND	ND	ND	ND	ND	ND
WES22-52	0-4	April 20, 2022	0.3	27	ND	ND	ND	ND	ND	ND	ND	ND	ND
WES22-53	0-4	April 21, 2022	2.1	23	ND	ND	ND	ND	ND	ND	ND	ND	ND
WES22-58	0-4	April 21, 2022	0.6	30	ND	ND	ND	ND	ND	ND	ND	ND	ND
WES22-59	0-4	April 21, 2022	0.9	25	180	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 (0- 4 feet bgs and off-pad)

Client Name: EOG Resources, Inc.

Site Name: Avalanche Journal State Battery

NM OCD Tracking #: nAPP2207560537

Project #: 22E-00347

Lab Reports: 2204559, 2204626, 2204847, 2204848, 2204849, 2204852, 2204926, 2204929, 2204986, 2204A31, 2204A38, 2204A86, 2205563, and 2205620

Table 5. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater 50-100 feet bgs													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic Chloride
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride (calculated from electroconductivity)	Volatile		Extractable					
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
WES22-29	5-10	April 14, 2022	0.2	58	5,172	ND	ND	ND	ND	ND	ND	ND	3900
WES22-30	5-10	April 14, 2022	0.2	92	5,285	ND	ND	ND	ND	ND	ND	ND	3900
WES22-31	6-10	May 10, 2022	0.2	189	4,806	ND	ND	ND	15	ND	15	15	3200
WES22-32	4-10	April 14, 2022	0.2	48	9,185	ND	ND	ND	ND	ND	ND	ND	6100
WES22-33	5-7	April 15, 2022	0.1	80	7,261	ND	ND	ND	ND	ND	ND	ND	5800
WES22-34	4-7	April 15, 2022	0.1	40	7,229	ND	ND	ND	ND	ND	ND	ND	5300
WES22-35	5-7	April 15, 2022	0.1	59	6,779	ND	ND	ND	ND	ND	ND	ND	5300
WES22-36	4-12	May 11, 2022	0.2	30	6,359	ND	ND	ND	ND	ND	ND	ND	2600
WES22-37	5-12	May 11, 2022	0.2	31	3,514	ND	ND	ND	ND	ND	ND	ND	1700
WES22-38	5-12	May 10, 2022	0.3	135	2,469	ND	ND	ND	ND	ND	ND	ND	1500
WES22-39	4-8	April 15, 2022	0.7	48	3,165	ND	ND	ND	ND	ND	ND	ND	2300
WES22-40	4-8	April 15, 2022	4.9	2,460	7,691	ND	ND	ND	670	520	670	1190	6000
WES22-42	8-12	May 10, 2022	0.9	132	3,384	ND	ND	ND	ND	ND	ND	ND	2200
WES22-47	4-8	April 19, 2022	0.6	13	5,848	ND	ND	ND	ND	ND	ND	ND	560
WES22-54	4-5	April 21, 2022	0.7	280	1,834	ND	ND	ND	33	ND	33	33	1200
WES22-55	4-5	April 21, 2022	0.6	59	1,199	ND	ND	ND	ND	ND	ND	ND	740
WES22-56	4-5	April 21, 2022	0.7	46	3,931	ND	ND	ND	ND	ND	ND	ND	3000
WES22-61	7-15	May 11, 2022	1.2	25	2,955	ND	ND	ND	ND	ND	ND	ND	1600
WES22-62	4-5	April 22, 2022	1.2	59	3,146	ND	ND	ND	ND	ND	ND	ND	2100
WES22-63	5-6	May 10, 2022	0.4	37	1,609	ND	ND	ND	ND	ND	ND	ND	850
WES22-64	5-6	May 10, 2022	0.2	47	2,888	ND	ND	ND	ND	ND	ND	ND	970
WES22-65	12-15	May 11, 2022	1.2	23	5,565	ND	ND	ND	ND	ND	ND	ND	2200
WES22-66	4-15	May 11, 2022	0.3	850	3,657	ND	ND	ND	98	61	98	159	660
WES22-67	5-15	May 11, 2022	0.1	33	6,141	ND	ND	ND	ND	ND	ND	ND	2200
BES22-01	4	April 11, 2022	0.6	16	ND	ND	ND	ND	ND	ND	ND	ND	ND
BES22-02	4	April 11, 2022	0.6	15	ND	ND	ND	ND	ND	ND	ND	ND	ND
BES22-03	4	April 11, 2022	0.6	18	ND	ND	ND	ND	ND	ND	ND	ND	ND
BES22-04	4	April 11, 2022	0.7	19	ND	ND	ND	ND	ND	ND	ND	ND	ND
BES22-05	4	April 11, 2022	0.6	18	ND	ND	ND	ND	ND	ND	ND	ND	ND
BES22-06	4	April 11, 2022	0.4	19	ND	ND	ND	ND	ND	ND	ND	ND	ND
BES22-07	4	April 11, 2022	0.3	22	ND	ND	ND	ND	ND	ND	ND	ND	ND
BES22-08	4	April 11, 2022	0.3	22	ND	ND	ND	ND	ND	ND	ND	ND	ND
BES22-09	4	April 12, 2022	0.2	41	3,463	ND	ND	ND	ND	ND	ND	ND	2400
BES22-10	5	April 12, 2022	0.6	32	6,818	ND	ND	ND	ND	ND	ND	ND	5500
BES22-11	5	April 12, 2022	0.6	27	2,590	ND	ND	ND	ND	ND	ND	ND	1600
BES22-12	6	May 10, 2022	0.5	41	447	ND	ND	ND	ND	ND	ND	ND	200
BES22-13	10	April 14, 2022	0.2	51	5,087	ND	ND	ND	ND	ND	ND	ND	3800
BES22-14	10	April 12, 2022	0.2	39	4,696	ND	ND	ND	ND	ND	ND	ND	4900
BES22-15	5	April 12, 2022	1.0	60	5,768	ND	ND	ND	ND	ND	ND	ND	4400
BES22-16	5	April 12, 2022	0.8	69	8,563	ND	ND	ND	ND	ND	ND	ND	5400
BES22-17	6	May 10, 2022	0.7	62	2,707	ND	ND	ND	ND	ND	ND	ND	1900
BES22-18	5	April 12, 2022	0.6	364	5,791	ND	ND	ND	51	76	51	127	4800
BES22-19	5	April 12, 2022	0.8	248	3,357	ND	ND	ND	ND	ND	ND	ND	2400
BES22-20	5	April 12, 2022	0.7	28	1,827	ND	ND	ND	ND	ND	ND	ND	1200
BES22-21	5	April 12, 2022	0.6	57	4,384	ND	ND	ND	ND	ND	ND	ND	2500
BES22-22	5	April 12, 2022	0.6	41	4,754	ND	ND	ND	ND	ND	ND	ND	4000
BES22-23	5	April 12, 2022	0.6	26	6,909	ND	ND	ND	ND	ND	ND	ND	5400
BES22-24	4	April 13, 2022	0.4	41	919	ND	ND	ND	ND	ND	ND	ND	250
BES22-25	4	April 13, 2022	0.7	46	554	ND	ND	ND	ND	ND	ND	ND	75

Client Name: EOG Resources, Inc.

Site Name: Avalanche Journal State Battery

NM OCD Tracking #: nAPP2207560537

Project #: 22E-00347

Lab Reports: 2204559, 2204626, 2204847, 2204848, 2204849, 2204852, 2204926, 2204929, 2204986, 2204A31, 2204A38, 2204A86, 2205563, and 2205620

Table 5. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater 50-100 feet bgs													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic Chloride
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride (calculated from electroconductivity)	Volatile		Extractable					
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
BES22-26	4	April 13, 2022	1.0	29	160	ND	ND	ND	ND	ND	ND	ND	ND
BES22-27	4	April 13, 2022	0.9	43	151	ND	ND	ND	ND	ND	ND	ND	ND
BES22-28	4	April 13, 2022	1.0	52	213	ND	ND	ND	ND	ND	ND	ND	ND
BES22-29	4	April 13, 2022	0.7	78	593	ND	ND	ND	ND	ND	ND	ND	240
BES22-30	4	April 13, 2022	0.5	50	217	ND	ND	ND	ND	ND	ND	ND	ND
BES22-31	4	April 13, 2022	0.6	82	292	ND	ND	ND	ND	ND	ND	ND	ND
BES22-32	4	April 13, 2022	0.5	661	1,707	ND	ND	ND	110	110	110	220	1200
BES22-33	4	April 13, 2022	0.8	413	385	ND	ND	ND	39	ND	39	39	200
BES22-34	4	April 13, 2022	0.5	250	4,439	ND	ND	ND	ND	ND	ND	ND	3800
BES22-35	4	April 13, 2022	0.7	130	2,430	ND	ND	ND	ND	ND	ND	ND	1500
BES22-36	4	April 13, 2022	0.3	262	3,533	ND	ND	ND	41	ND	41	41	3100
BES22-37	4	April 13, 2022	0.6	546	753	ND	ND	ND	33	ND	33	33	270
BES22-38	5	April 13, 2022	1.1	143	5,099	ND	ND	ND	ND	ND	ND	ND	3600
BES22-39	4	April 13, 2022	0.5	72	3,520	ND	ND	ND	ND	ND	ND	ND	2000
BES22-40	7	April 14, 2022	0.4	26	8,373	ND	ND	ND	ND	ND	ND	ND	6100
BES22-41	15	May 11, 2022	1.2	40	7,165	ND	ND	ND	ND	ND	ND	ND	2400
BES22-42	12	May 10, 2022	0.3	156	2,029	ND	ND	ND	ND	ND	ND	ND	1400
BES22-43	5	April 13, 2022	11.0	1,258	2,879	ND	ND	ND	450	300	450	750	1700
BES22-44	5	April 13, 2022	1.5	167	5,822	ND	ND	ND	ND	ND	ND	ND	4400
BES22-45	7	April 14, 2022	0.6	40	9,252	ND	ND	ND	ND	ND	ND	ND	7400
BES22-46	7	April 15, 2022	0.2	92	8,447	ND	ND	ND	ND	ND	ND	ND	6800
BES22-47	4	April 15, 2022	0	144	9,447	ND	ND	ND	ND	ND	ND	ND	7500
BES22-48	12	May 10, 2022	1.2	66	3,720	ND	ND	ND	ND	ND	ND	ND	1900
BES22-49	8	April 15, 2022	2.6	110	8,563	ND	ND	ND	24	ND	24	24	8300
BES22-50	8	April 15, 2022	0.7	42	7,139	ND	ND	ND	ND	ND	ND	ND	6200
BES22-51	4	April 18, 2022	1.0	919	4,820	ND	ND	ND	110	160	110	270	3000
BES22-52	4	April 18, 2022	0.7	497	1,864	ND	ND	ND	36	110	36	146	1200
BES22-53	4	April 18, 2022	0.8	280	2,392	ND	ND	ND	16	ND	16	16	1300
BES22-54	4	April 18, 2022	1.0	140	2,205	ND	ND	ND	ND	ND	ND	ND	1100
BES22-55	4	April 18, 2022	0.9	2,470	3,556	ND	ND	ND	180	200	180	380	1900
BES22-56	4	April 18, 2022	1.6	124	5,422	ND	ND	ND	ND	ND	ND	ND	4400
BES22-57	4	April 18, 2022	1.1	116	9,173	ND	ND	ND	ND	ND	ND	ND	6200
BES22-58	4	April 18, 2022	0.9	2,330	7,318	ND	ND	ND	55	230	55	285	1200
BES22-59	4	April 18, 2022	1.1	1,024	2,359	ND	ND	ND	120	340	120	460	5000
BES22-60	4	April 19, 2022	0.8	18	215	ND	ND	ND	ND	ND	ND	ND	91
BES22-61	4	April 19, 2022	1.1	66	1,114	ND	ND	ND	ND	ND	ND	ND	620
BES22-62	4	April 19, 2022	1.0	281	1,345	ND	ND	ND	22	ND	22	22	290
BES22-63	4	April 19, 2022	1.1	63	3,013	ND	ND	ND	ND	ND	ND	ND	1600
BES22-64	4	April 19, 2022	12.2	2,350	7,137	ND	ND	ND	400	190	400	590	1600
BES22-65	4	April 19, 2022	2.0	857	4,062	ND	ND	ND	64	63	64	127	2900
BES22-66	4	April 19, 2022	1.4	72	6,439	ND	ND	ND	ND	ND	ND	ND	4100
BES22-67	4	April 19, 2022	1.7	51	4,110	ND	ND	ND	ND	ND	ND	ND	2600
BES22-68	4	April 19, 2022	1.8	179	1,665	ND	ND	ND	ND	ND	ND	ND	870
BES22-69	4	April 19, 2022	1.8	293	89	ND	ND	ND	15	47	15	62	89
BES22-70	4	April 19, 2022	1.5	172	7,108	ND	ND	ND	ND	ND	ND	ND	5000
BES22-71	4	April 19, 2022	1.7	107	6,014	ND	ND	ND	ND	ND	ND	ND	4000
BES22-72	4	April 20, 2022	0.6	83	4,018	ND	ND	ND	ND	ND	ND	ND	2800
BES22-73	4	April 20, 2022	0.2	36	2,004	ND	ND	ND	ND	ND	ND	ND	900
BES22-74	4	April 20, 2022	0.5	285	5,944	ND	ND	ND	49	100	49	149	3300



Client Name: EOG Resources, Inc.

Site Name: Avalanche Journal State Battery

NM OCD Tracking #: nAPP2207560537

Project #: 22E-00347

Lab Reports: 2204559, 2204626, 2204847, 2204848, 2204849, 2204852, 2204926, 2204929, 2204986, 2204A31, 2204A38, 2204A86, 2205563, and 2205620

Table 5. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater 50-100 feet bgs													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic Chloride
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride (calculated from electroconductivity)	Volatile		Extractable					
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
BES22-75	4	April 20, 2022	3.4	1,001	4,059	ND	ND	ND	170	160	170	330	2200
BES22-76	4	April 20, 2022	7.4	1,700	4,944	ND	ND	ND	320	270	320	590	2200
BES22-77	4	April 20, 2022	2.4	105	ND	ND	ND	ND	ND	ND	ND	ND	120
BES22-78	4	April 20, 2022	1.6	73	1,195	ND	ND	ND	ND	ND	ND	ND	510
BES22-79	4	April 20, 2022	3.8	258	4,022	ND	ND	ND	43	ND	43	43	2200
BES22-80	4	April 20, 2022	7.4	1,850	6,715	ND	ND	ND	380	280	380	660	2200
BES22-81	4	April 20, 2022	0.6	109	4,036	ND	ND	ND	10	ND	10	10	2200
BES22-82	4	April 21, 2022	0.6	32	ND	ND	ND	ND	ND	ND	ND	ND	ND
BES22-83	4	April 21, 2022	1.9	173	633	ND	ND	ND	17	ND	17	17	460
BES22-84	4	April 21, 2022	3.0	429	2,048	ND	ND	ND	83	56	83	139	1200
BES22-85	4	April 21, 2022	0.6	42	616	ND	ND	ND	ND	ND	ND	ND	750
BES22-86	4	April 21, 2022	0.7	66	72	ND	ND	ND	ND	ND	ND	ND	390
BES22-87	4	April 21, 2022	1.0	55	3,188	ND	ND	ND	ND	ND	ND	ND	1900
BES22-88	4	April 21, 2022	0.8	26	272	ND	ND	ND	ND	ND	ND	ND	100
BES22-89	4	April 21, 2022	1.2	45	3,847	ND	ND	ND	ND	ND	ND	ND	2200
BES22-90	4	April 22, 2022	0.7	274	ND	ND	ND	ND	ND	ND	ND	ND	1500
BES22-91	4	April 22, 2022	1.1	20	5,498	ND	ND	ND	ND	ND	ND	ND	ND
BES22-92	4	April 22, 2022	0.9	96	ND	ND	ND	ND	ND	ND	ND	ND	ND
BES22-93	8	April 22, 2022	0.7	78	2,112	ND	ND	ND	ND	ND	ND	ND	6900
BES22-94	8	April 22, 2022	1.2	24	7,516	ND	ND	ND	ND	ND	ND	ND	5400
BES22-95	15	May 11, 2022	2.0	21	6,069	ND	ND	ND	ND	ND	ND	ND	2100

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria (on-pad below 4 feet bgs)

## **ATTACHMENT 6**

**Lakin Pullman**

---

**From:** Chase Settle <Chase\_Settle@eogresources.com>  
**Sent:** April 6, 2022 4:04 PM  
**To:** Michael Moffitt  
**Subject:** FW: [EXTERNAL] Avalanche Journal State Battery (nAPP2207560537) Sampling Notification

---

**From:** Miriam Morales <Miriam\_Morales@eogresources.com>  
**Sent:** Wednesday, April 6, 2022 3:54 PM  
**To:** Artesia S&E Spill Remediation <Artesia\_S&E\_Spill\_Remediation@eogresources.com>  
**Cc:** Artesia Regulatory <Artesia\_Regulatory@eogresources.com>  
**Subject:** FW: [EXTERNAL] Avalanche Journal State Battery (nAPP2207560537) Sampling Notification

FYI

*Miriam Morales*

---

**From:** Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>  
**Sent:** Wednesday, April 6, 2022 3:52 PM  
**To:** Miriam Morales <[Miriam\\_Morales@eogresources.com](mailto:Miriam_Morales@eogresources.com)>  
**Cc:** Artesia Regulatory <[Artesia\\_Regulatory@eogresources.com](mailto:Artesia_Regulatory@eogresources.com)>; Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Hensley, Chad, EMNRD <[Chad.Hensley@state.nm.us](mailto:Chad.Hensley@state.nm.us)>; Velez, Nelson, EMNRD <[Nelson.Velez@state.nm.us](mailto:Nelson.Velez@state.nm.us)>; Nobui, Jennifer, EMNRD <[Jennifer.Nobui@state.nm.us](mailto:Jennifer.Nobui@state.nm.us)>  
**Subject:** RE: [EXTERNAL] Avalanche Journal State Battery (nAPP2207560537) Sampling Notification

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Miriam,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
811 S. First Street | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Miriam Morales <[Miriam\\_Morales@eogresources.com](mailto:Miriam_Morales@eogresources.com)>  
**Sent:** Wednesday, April 6, 2022 2:43 PM  
**To:** Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>; [rmann@slo.state.nm.us](mailto:rmann@slo.state.nm.us); [mnaranjo@slo.state.nm.us](mailto:mnaranjo@slo.state.nm.us)  
**Cc:** Artesia S&E Spill Remediation <[Artesia\\_S&E\\_Spill\\_Remediation@eogresources.com](mailto:Artesia_S&E_Spill_Remediation@eogresources.com)>; Artesia Regulatory <[Artesia\\_Regulatory@eogresources.com](mailto:Artesia_Regulatory@eogresources.com)>  
**Subject:** [EXTERNAL] Avalanche Journal State Battery (nAPP2207560537) Sampling Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

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

Avalanche Journal Battery  
F-04-08S-27E  
Chavez County, NM  
nAPP2207560537

Sampling will begin at 2:30 p.m. on Friday, April 8, 2022 and will be continuous through Friday, April 15, 2022.

Thank you,

*Miriam Morales*

## Lakin Pullman

---

**From:** Yvette Moore <Yvette\_Moore@eogresources.com>  
**Sent:** April 18, 2022 1:07 PM  
**To:** Michael Moffitt  
**Cc:** Chase Settle  
**Subject:** FW: Avalanche Journal Battery (nAPP2207560537) Sampling Notification

Good Morning,

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

Avalanche Journal Battery  
nAPP2207560537

Sampling will begin at 8:00 a.m. on Monday, April 18, 2022, and be continuous through Friday, April 22, 2022.

Thank you,

*Tina Huerta*  
*Regulatory Specialist*  
*Direct: 575.748.4168*  
*Cell: 575.703.3121*  
*Email: [tina\\_huerta@eogresources.com](mailto:tina_huerta@eogresources.com)*





**Lakin Pullman**

---

**From:** Chase Settle <Chase\_Settle@eogresources.com>  
**Sent:** May 5, 2022 8:09 AM  
**To:** Michael Moffitt  
**Cc:** Monica Peppin  
**Subject:** FW: [EXTERNAL] Avalanche Journal Battery (nAPP220750537) Sampling Notification

---

**From:** Tina Huerta <Tina\_Huerta@eogresources.com>  
**Sent:** Thursday, May 5, 2022 8:08 AM  
**To:** Artesia S&E Spill Remediation <Artesia\_S&E\_Spill\_Remediation@eogresources.com>  
**Cc:** Artesia Regulatory <Artesia\_Regulatory@eogresources.com>  
**Subject:** FW: [EXTERNAL] Avalanche Journal Battery (nAPP220750537) Sampling Notification

FYI

---

**From:** Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>  
**Sent:** Thursday, May 5, 2022 7:32 AM  
**To:** Tina Huerta <[Tina\\_Huerta@eogresources.com](mailto:Tina_Huerta@eogresources.com)>  
**Cc:** Artesia Regulatory <[Artesia\\_Regulatory@eogresources.com](mailto:Artesia_Regulatory@eogresources.com)>; Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Nobui, Jennifer, EMNRD <[Jennifer.Nobui@state.nm.us](mailto:Jennifer.Nobui@state.nm.us)>; Harimon, Jocelyn, EMNRD <[Jocelyn.Harimon@state.nm.us](mailto:Jocelyn.Harimon@state.nm.us)>  
**Subject:** RE: [EXTERNAL] Avalanche Journal Battery (nAPP220750537) Sampling Notification

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Tina,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
811 S. First Street | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Tina Huerta <[Tina\\_Huerta@eogresources.com](mailto:Tina_Huerta@eogresources.com)>  
**Sent:** Thursday, May 5, 2022 7:24 AM

**To:** Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>; [rmann@slo.state.nm.us](mailto:rmann@slo.state.nm.us); [mnaranjo@slo.state.nm.us](mailto:mnaranjo@slo.state.nm.us)  
**Cc:** Artesia S&E Spill Remediation <[Artesia\\_S&E\\_Spill\\_Remediation@eogresources.com](mailto:Artesia_S&E_Spill_Remediation@eogresources.com)>; Artesia Regulatory  
<[Artesia\\_Regulatory@eogresources.com](mailto:Artesia_Regulatory@eogresources.com)>  
**Subject:** [EXTERNAL] Avalanche Journal Battery (nAPP220750537) Sampling Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Morning,

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

Avalanche Journal Battery  
F-4-8S-27E  
Chaves County, New Mexico  
nAPP2207560537

Sampling will begin at 8:00 a.m. on Monday, May 9, 2022, and be continuous through Friday, May 13, 2022.

Thank you,

*Tina Huerta*  
*Regulatory Specialist*  
*Direct: 575.748.4168*  
*Cell: 575.703.3121*  
*Email: [tina\\_huerta@eogresources.com](mailto:tina_huerta@eogresources.com)*



## Lakin Pullman

---

**From:** Chase Settle <Chase\_Settle@eogresources.com>  
**Sent:** May 12, 2022 10:18 AM  
**To:** Michael Moffitt; Monica Peppin  
**Subject:** FW: Avalanche Journal Battery (nAPP2207560537) Sampling Notification

---

**From:** Miriam Morales <Miriam\_Morales@eogresources.com>  
**Sent:** Thursday, May 12, 2022 10:15 AM  
**To:** Robert.Hamlet@state.nm.us; rmann@slo.state.nm.us; mnaranjo@slo.state.nm.us  
**Cc:** Artesia Regulatory <Artesia\_Regulatory@eogresources.com>; Artesia S&E Spill Remediation <Artesia\_S&E\_Spill\_Remediation@eogresources.com>  
**Subject:** Avalanche Journal Battery (nAPP2207560537) Sampling Notification

Good morning,

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

Avalanche Journal Battery  
F-04-08S-27E; Chavez County, NM  
nAPP2207560537

Sampling will begin at 08:00 a.m. on Friday, May 20, 2022.

Thank you,

*Miriam Morales*

## **ATTACHMENT 7**



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

February 25, 2022

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

RE: Avalanche Journal Tank Battery

OrderNo.: 2202764

Dear Mike Moffitt:

Hall Environmental Analysis Laboratory received 8 sample(s) on 2/16/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order 2202764

Date Reported: 2/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-01 0'

Project: Avalanche Journal Tank Battery

Collection Date: 2/14/2022 9:00:00 AM

Lab ID: 2202764-001

Matrix: SOIL

Received Date: 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	780	60		mg/Kg	20	2/23/2022 11:21:24 AM	65735
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	880	200		mg/Kg	20	2/22/2022 7:24:47 PM	65647
Motor Oil Range Organics (MRO)	1300	980		mg/Kg	20	2/22/2022 7:24:47 PM	65647
Surr: DNOP	0	51.1-141	S	%Rec	20	2/22/2022 7:24:47 PM	65647
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/19/2022 12:08:00 AM	65600
Surr: BFB	92.0	70-130		%Rec	1	2/19/2022 12:08:00 AM	65600
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	2/19/2022 12:08:00 AM	65600
Toluene	ND	0.046		mg/Kg	1	2/19/2022 12:08:00 AM	65600
Ethylbenzene	ND	0.046		mg/Kg	1	2/19/2022 12:08:00 AM	65600
Xylenes, Total	ND	0.091		mg/Kg	1	2/19/2022 12:08:00 AM	65600
Surr: 4-Bromofluorobenzene	81.3	70-130		%Rec	1	2/19/2022 12:08:00 AM	65600

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2202764

Date Reported: 2/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-01 5'

Project: Avalanche Journal Tank Battery

Collection Date: 2/14/2022 9:10:00 AM

Lab ID: 2202764-002

Matrix: SOIL

Received Date: 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	1000	60		mg/Kg	20	2/23/2022 11:58:38 AM	65735
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/21/2022 3:35:07 PM	65620
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/21/2022 3:35:07 PM	65620
Surr: DNOP	83.0	51.1-141		%Rec	1	2/21/2022 3:35:07 PM	65620
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/19/2022 12:28:00 AM	65600
Surr: BFB	94.8	70-130		%Rec	1	2/19/2022 12:28:00 AM	65600
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/19/2022 12:28:00 AM	65600
Toluene	ND	0.048		mg/Kg	1	2/19/2022 12:28:00 AM	65600
Ethylbenzene	ND	0.048		mg/Kg	1	2/19/2022 12:28:00 AM	65600
Xylenes, Total	ND	0.097		mg/Kg	1	2/19/2022 12:28:00 AM	65600
Surr: 4-Bromofluorobenzene	82.5	70-130		%Rec	1	2/19/2022 12:28:00 AM	65600

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2202764

Date Reported: 2/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-01 10'

Project: Avalanche Journal Tank Battery

Collection Date: 2/14/2022 9:20:00 AM

Lab ID: 2202764-003

Matrix: SOIL

Received Date: 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	10000	300		mg/Kg	100	2/23/2022 12:11:02 PM	65735
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/21/2022 3:50:14 PM	65620
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/21/2022 3:50:14 PM	65620
Surr: DNOP	81.3	51.1-141		%Rec	1	2/21/2022 3:50:14 PM	65620
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/19/2022 1:26:00 AM	65600
Surr: BFB	91.5	70-130		%Rec	1	2/19/2022 1:26:00 AM	65600
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	2/19/2022 1:26:00 AM	65600
Toluene	ND	0.047		mg/Kg	1	2/19/2022 1:26:00 AM	65600
Ethylbenzene	ND	0.047		mg/Kg	1	2/19/2022 1:26:00 AM	65600
Xylenes, Total	ND	0.094		mg/Kg	1	2/19/2022 1:26:00 AM	65600
Surr: 4-Bromofluorobenzene	81.7	70-130		%Rec	1	2/19/2022 1:26:00 AM	65600

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2202764

Date Reported: 2/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-01 15'

Project: Avalanche Journal Tank Battery

Collection Date: 2/14/2022 9:30:00 AM

Lab ID: 2202764-004

Matrix: SOIL

Received Date: 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	10000	300		mg/Kg	100	2/23/2022 12:23:26 PM	65735
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/18/2022 6:32:43 PM	65620
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/18/2022 6:32:43 PM	65620
Surr: DNOP	88.3	51.1-141		%Rec	1	2/18/2022 6:32:43 PM	65620
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/19/2022 1:46:00 AM	65600
Surr: BFB	97.3	70-130		%Rec	1	2/19/2022 1:46:00 AM	65600
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	2/19/2022 1:46:00 AM	65600
Toluene	ND	0.047		mg/Kg	1	2/19/2022 1:46:00 AM	65600
Ethylbenzene	ND	0.047		mg/Kg	1	2/19/2022 1:46:00 AM	65600
Xylenes, Total	ND	0.093		mg/Kg	1	2/19/2022 1:46:00 AM	65600
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	1	2/19/2022 1:46:00 AM	65600

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2202764

Date Reported: 2/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-02 0'

Project: Avalanche Journal Tank Battery

Collection Date: 2/14/2022 11:00:00 AM

Lab ID: 2202764-005

Matrix: SOIL

Received Date: 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	1100	61		mg/Kg	20	2/23/2022 12:35:51 PM	65735
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	310	10		mg/Kg	1	2/21/2022 4:05:09 PM	65620
Motor Oil Range Organics (MRO)	490	50		mg/Kg	1	2/21/2022 4:05:09 PM	65620
Surr: DNOP	78.5	51.1-141		%Rec	1	2/21/2022 4:05:09 PM	65620
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/19/2022 2:05:00 AM	65600
Surr: BFB	95.2	70-130		%Rec	1	2/19/2022 2:05:00 AM	65600
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/19/2022 2:05:00 AM	65600
Toluene	ND	0.047		mg/Kg	1	2/19/2022 2:05:00 AM	65600
Ethylbenzene	ND	0.047		mg/Kg	1	2/19/2022 2:05:00 AM	65600
Xylenes, Total	ND	0.095		mg/Kg	1	2/19/2022 2:05:00 AM	65600
Surr: 4-Bromofluorobenzene	81.8	70-130		%Rec	1	2/19/2022 2:05:00 AM	65600

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2202764

Date Reported: 2/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-02 5'

Project: Avalanche Journal Tank Battery

Collection Date: 2/14/2022 11:10:00 AM

Lab ID: 2202764-006

Matrix: SOIL

Received Date: 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	5500	300		mg/Kg	100	2/23/2022 12:48:15 PM	65735
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/21/2022 5:04:37 PM	65620
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/21/2022 5:04:37 PM	65620
Surr: DNOP	74.8	51.1-141		%Rec	1	2/21/2022 5:04:37 PM	65620
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/19/2022 2:25:00 AM	65600
Surr: BFB	92.4	70-130		%Rec	1	2/19/2022 2:25:00 AM	65600
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	2/19/2022 2:25:00 AM	65600
Toluene	ND	0.050		mg/Kg	1	2/19/2022 2:25:00 AM	65600
Ethylbenzene	ND	0.050		mg/Kg	1	2/19/2022 2:25:00 AM	65600
Xylenes, Total	ND	0.10		mg/Kg	1	2/19/2022 2:25:00 AM	65600
Surr: 4-Bromofluorobenzene	81.9	70-130		%Rec	1	2/19/2022 2:25:00 AM	65600

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2202764

Date Reported: 2/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-02 10'

Project: Avalanche Journal Tank Battery

Collection Date: 2/14/2022 11:20:00 AM

Lab ID: 2202764-007

Matrix: SOIL

Received Date: 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	6700	300		mg/Kg	100	2/23/2022 1:00:40 PM	65735
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	12	9.6		mg/Kg	1	2/23/2022 1:29:29 PM	65620
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/23/2022 1:29:29 PM	65620
Surr: DNOP	80.3	51.1-141		%Rec	1	2/23/2022 1:29:29 PM	65620
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/19/2022 2:44:00 AM	65600
Surr: BFB	91.1	70-130		%Rec	1	2/19/2022 2:44:00 AM	65600
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/19/2022 2:44:00 AM	65600
Toluene	ND	0.049		mg/Kg	1	2/19/2022 2:44:00 AM	65600
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2022 2:44:00 AM	65600
Xylenes, Total	ND	0.097		mg/Kg	1	2/19/2022 2:44:00 AM	65600
Surr: 4-Bromofluorobenzene	81.2	70-130		%Rec	1	2/19/2022 2:44:00 AM	65600

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2202764

Date Reported: 2/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-02 14'

Project: Avalanche Journal Tank Battery

Collection Date: 2/14/2022 11:30:00 AM

Lab ID: 2202764-008

Matrix: SOIL

Received Date: 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	5300	300		mg/Kg	100	2/23/2022 1:13:04 PM	65735
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/18/2022 8:09:27 PM	65620
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/18/2022 8:09:27 PM	65620
Surr: DNOP	83.9	51.1-141		%Rec	1	2/18/2022 8:09:27 PM	65620
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/19/2022 3:04:00 AM	65600
Surr: BFB	94.7	70-130		%Rec	1	2/19/2022 3:04:00 AM	65600
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	2/19/2022 3:04:00 AM	65600
Toluene	ND	0.049		mg/Kg	1	2/19/2022 3:04:00 AM	65600
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2022 3:04:00 AM	65600
Xylenes, Total	ND	0.098		mg/Kg	1	2/19/2022 3:04:00 AM	65600
Surr: 4-Bromofluorobenzene	82.7	70-130		%Rec	1	2/19/2022 3:04:00 AM	65600

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202764

25-Feb-22

Client: EOG

Project: Avalanche Journal Tank Battery

Sample ID: <b>MB-65735</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>PBS</b>	Batch ID: <b>65735</b>	RunNo: <b>86027</b>
Prep Date: <b>2/22/2022</b>	Analysis Date: <b>2/23/2022</b>	SeqNo: <b>3032346</b> Units: <b>mg/Kg</b>
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: <b>LCS-65735</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>LCSS</b>	Batch ID: <b>65735</b>	RunNo: <b>86027</b>
Prep Date: <b>2/22/2022</b>	Analysis Date: <b>2/23/2022</b>	SeqNo: <b>3032347</b> Units: <b>mg/Kg</b>
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 96.2 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 Quantitative 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

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

WO#: 2202764

25-Feb-22

**Client:** EOG**Project:** Avalanche Journal Tank Battery

Sample ID: <b>LCS-65620</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65620</b>	RunNo: <b>85938</b>								
Prep Date: <b>2/17/2022</b>	Analysis Date: <b>2/18/2022</b>	SeqNo: <b>3026750</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.0	68.9	135			
Surr: DNOP	4.3		5.000		86.5	51.1	141			

Sample ID: <b>MB-65620</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65620</b>	RunNo: <b>85938</b>								
Prep Date: <b>2/17/2022</b>	Analysis Date: <b>2/18/2022</b>	SeqNo: <b>3026756</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		99.7	51.1	141			

Sample ID: <b>MB-65647</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65647</b>	RunNo: <b>85962</b>								
Prep Date: <b>2/18/2022</b>	Analysis Date: <b>2/21/2022</b>	SeqNo: <b>3028710</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	14		10.00		143	51.1	141			S

Sample ID: <b>LCS-65647</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65647</b>	RunNo: <b>85962</b>								
Prep Date: <b>2/18/2022</b>	Analysis Date: <b>2/21/2022</b>	SeqNo: <b>3028712</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	10	50.00	0	119	68.9	135			
Surr: DNOP	6.5		5.000		130	51.1	141			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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

WO#: 2202764

25-Feb-22

**Client:** EOG**Project:** Avalanche Journal Tank Battery

Sample ID: <b>lcs-65600</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>65600</b>			RunNo: <b>85923</b>						
Prep Date: <b>2/16/2022</b>	Analysis Date: <b>2/18/2022</b>			SeqNo: <b>3026803</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	78.6	131			
Surr: BFB	1200		1000		115	70	130			

Sample ID: <b>mb-65600</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>65600</b>			RunNo: <b>85923</b>						
Prep Date: <b>2/16/2022</b>	Analysis Date: <b>2/18/2022</b>			SeqNo: <b>3026804</b>		Units: <b>mg/Kg</b>				
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		105	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 Quantitative 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#: 2202764

25-Feb-22

**Client:** EOG**Project:** Avalanche Journal Tank Battery

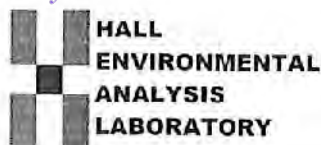
Sample ID: <b>lcs-65600</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>65600</b>			RunNo: <b>85923</b>						
Prep Date: <b>2/16/2022</b>	Analysis Date: <b>2/18/2022</b>			SeqNo: <b>3026832</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.3	80	120			
Toluene	0.97	0.050	1.000	0	97.3	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.0	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.3	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.5	70	130			

Sample ID: <b>mb-65600</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>65600</b>			RunNo: <b>85923</b>						
Prep Date: <b>2/16/2022</b>	Analysis Date: <b>2/18/2022</b>			SeqNo: <b>3026833</b>		Units: <b>mg/Kg</b>				
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	0.90		1.000		90.2	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative 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  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.halleirvironmental.com](http://clients.halleirvironmental.com)

## Sample Log-In Check List

Client Name: EOG

Work Order Number: 2202764

RcptNo: 1

Received By: Cheyenne Cason 2/16/2022 8:05:00 AM

Completed By: Sean Livingston 2/16/2022 8:53:20 AM

Reviewed By: ID 2.16.22

Cason

Sean Livingston

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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:

( $\leq 2$  or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: KPG 2/16/22

### 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good				







Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

March 04, 2022

Mike Moffitt

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Avalanche Journal Battery

OrderNo.: 2202900

Dear Mike Moffitt:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/18/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109



## Analytical Report

Lab Order 2202900

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-01 17'

Project: Avalanche Journal Battery

Collection Date: 2/16/2022 9:00:00 AM

Lab ID: 2202900-001

Matrix: SOIL

Received Date: 2/18/2022 7:36:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	6700	300		mg/Kg	100	2/28/2022 12:22:23 PM	65779
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/22/2022 10:53:05 PM	65661
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/22/2022 10:53:05 PM	65661
Surr: DNOP	96.4	51.1-141		%Rec	1	2/22/2022 10:53:05 PM	65661
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/21/2022 11:45:00 AM	65656
Surr: BFB	112	70-130		%Rec	1	2/21/2022 11:45:00 AM	65656
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	2/21/2022 11:45:00 AM	65656
Toluene	ND	0.050		mg/Kg	1	2/21/2022 11:45:00 AM	65656
Ethylbenzene	ND	0.050		mg/Kg	1	2/21/2022 11:45:00 AM	65656
Xylenes, Total	ND	0.10		mg/Kg	1	2/21/2022 11:45:00 AM	65656
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	2/21/2022 11:45:00 AM	65656

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 1 of 6

## Analytical Report

Lab Order 2202900

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-03 0'

Project: Avalanche Journal Battery

Collection Date: 2/16/2022 9:30:00 AM

Lab ID: 2202900-002

Matrix: SOIL

Received Date: 2/18/2022 7:36:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	130	60		mg/Kg	20	2/24/2022 11:45:00 AM	65779
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	38	9.1		mg/Kg	1	2/22/2022 11:17:21 PM	65661
Motor Oil Range Organics (MRO)	120	45		mg/Kg	1	2/22/2022 11:17:21 PM	65661
Surr: DNOP	97.0	51.1-141		%Rec	1	2/22/2022 11:17:21 PM	65661
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/21/2022 12:44:00 PM	65656
Surr: BFB	107	70-130		%Rec	1	2/21/2022 12:44:00 PM	65656
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	2/21/2022 12:44:00 PM	65656
Toluene	ND	0.050		mg/Kg	1	2/21/2022 12:44:00 PM	65656
Ethylbenzene	ND	0.050		mg/Kg	1	2/21/2022 12:44:00 PM	65656
Xylenes, Total	ND	0.10		mg/Kg	1	2/21/2022 12:44:00 PM	65656
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	1	2/21/2022 12:44:00 PM	65656

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2202900

04-Mar-22

Client: EOG

Project: Avalanche Journal Battery

Sample ID: <b>MB-65779</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65779</b>	RunNo: <b>86060</b>								
Prep Date: <b>2/24/2022</b>	Analysis Date: <b>2/24/2022</b>	SeqNo: <b>3033158</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-65779</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65779</b>	RunNo: <b>86060</b>								
Prep Date: <b>2/24/2022</b>	Analysis Date: <b>2/24/2022</b>	SeqNo: <b>3033159</b>	Units: <b>mg/Kg</b>							
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.	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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2202900

04-Mar-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>MB-65661</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65661</b>	RunNo: <b>85989</b>								
Prep Date: <b>2/18/2022</b>	Analysis Date: <b>2/22/2022</b>	SeqNo: <b>3031305</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		95.8	51.1	141			

Sample ID: <b>LCS-65661</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65661</b>	RunNo: <b>85989</b>								
Prep Date: <b>2/18/2022</b>	Analysis Date: <b>2/22/2022</b>	SeqNo: <b>3031306</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	68.9	135			
Surr: DNOP	4.6		5.000		92.1	51.1	141			

**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 Quantitative Limit	RL Reporting Limit
S % Recovery outside of range due to dilution or matrix interference	

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

WO#: 2202900

04-Mar-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>MB-65656</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65656</b>	RunNo: <b>85977</b>								
Prep Date: <b>2/18/2022</b>	Analysis Date: <b>2/21/2022</b>	SeqNo: <b>3028593</b>	Units: <b>mg/Kg</b>							
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		110	70	130			

Sample ID: <b>lcs-65656</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65656</b>	RunNo: <b>85977</b>								
Prep Date: <b>2/18/2022</b>	Analysis Date: <b>2/21/2022</b>	SeqNo: <b>3028646</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	78.6	131			
Surr: BFB	1200		1000		118	70	130			

**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 Quantitative Limit	RL Reporting Limit
S % Recovery outside of range due to dilution or matrix interference	



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

WO#: 2202900

04-Mar-22

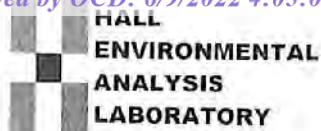
**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>LCS-65656</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>65656</b>			RunNo: <b>85977</b>						
Prep Date: <b>2/18/2022</b>	Analysis Date: <b>2/21/2022</b>			SeqNo: <b>3028647</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.2	80	120			
Toluene	0.94	0.050	1.000	0	94.4	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.4	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.3	70	130			

Sample ID: <b>MB-65656</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>65656</b>			RunNo: <b>85977</b>						
Prep Date: <b>2/18/2022</b>	Analysis Date: <b>2/21/2022</b>			SeqNo: <b>3028695</b>		Units: <b>mg/Kg</b>				
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	0.95		1.000		94.6	70	130			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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

## Sample Log-In Check List

Client Name: EOG

Work Order Number: 2202900

RcptNo: 1

Received By: Tracy Casarrubias 2/18/2022 7:36:00 AM

Completed By: Cheyenne Cason 2/18/2022 8:26:33 AM

Reviewed By: *WMC* 2/18/22Chain 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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* 2/18/22

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.7	Good	Not Present			
2	4.2	Good	Not Present			







Hall Environmental Analysis Laboratory  
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Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

March 04, 2022

Mike Moffitt

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Avalanche Journal Battery

OrderNo.: 2202B33

Dear Mike Moffitt:

Hall Environmental Analysis Laboratory received 12 sample(s) on 2/24/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2202B33

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-04 0'

Project: Avalanche Journal Battery

Collection Date: 2/22/2022 10:30:00 AM

Lab ID: 2202B33-001

Matrix: SOIL

Received Date: 2/24/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	420	60		mg/Kg	20	2/26/2022 2:22:05 AM	65814
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	200	94		mg/Kg	10	2/28/2022 12:56:08 PM	65806
Motor Oil Range Organics (MRO)	490	470		mg/Kg	10	2/28/2022 12:56:08 PM	65806
Surr: DNOP	0	51.1-141	S	%Rec	10	2/28/2022 12:56:08 PM	65806
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/25/2022 1:51:00 PM	65784
Surr: BFB	108	70-130		%Rec	1	2/25/2022 1:51:00 PM	65784
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	2/25/2022 1:51:00 PM	65784
Toluene	ND	0.049		mg/Kg	1	2/25/2022 1:51:00 PM	65784
Ethylbenzene	ND	0.049		mg/Kg	1	2/25/2022 1:51:00 PM	65784
Xylenes, Total	ND	0.098		mg/Kg	1	2/25/2022 1:51:00 PM	65784
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	2/25/2022 1:51:00 PM	65784

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		



## Analytical Report

Lab Order 2202B33

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-04 3'

Project: Avalanche Journal Battery

Collection Date: 2/22/2022 10:35:00 AM

Lab ID: 2202B33-002

Matrix: SOIL

Received Date: 2/24/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	260	59		mg/Kg	20	2/26/2022 2:59:17 AM	65814
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	94	50		mg/Kg	5	2/28/2022 2:18:00 PM	65806
Motor Oil Range Organics (MRO)	440	250		mg/Kg	5	2/28/2022 2:18:00 PM	65806
Surr: DNOP	84.8	51.1-141		%Rec	5	2/28/2022 2:18:00 PM	65806
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/25/2022 2:50:00 PM	65784
Surr: BFB	105	70-130		%Rec	1	2/25/2022 2:50:00 PM	65784
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/25/2022 2:50:00 PM	65784
Toluene	ND	0.048		mg/Kg	1	2/25/2022 2:50:00 PM	65784
Ethylbenzene	ND	0.048		mg/Kg	1	2/25/2022 2:50:00 PM	65784
Xylenes, Total	ND	0.097		mg/Kg	1	2/25/2022 2:50:00 PM	65784
Surr: 4-Bromofluorobenzene	88.8	70-130		%Rec	1	2/25/2022 2:50:00 PM	65784

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2202B33

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-04 6'

Project: Avalanche Journal Battery

Collection Date: 2/22/2022 10:40:00 AM

Lab ID: 2202B33-003

Matrix: SOIL

Received Date: 2/24/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	270	61		mg/Kg	20	2/26/2022 3:11:41 AM	65814
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	21	9.7		mg/Kg	1	2/28/2022 10:36:11 AM	65806
Motor Oil Range Organics (MRO)	56	49		mg/Kg	1	2/28/2022 10:36:11 AM	65806
Surr: DNOP	85.9	51.1-141		%Rec	1	2/28/2022 10:36:11 AM	65806
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/25/2022 3:50:00 PM	65784
Surr: BFB	107	70-130		%Rec	1	2/25/2022 3:50:00 PM	65784
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/25/2022 3:50:00 PM	65784
Toluene	ND	0.049		mg/Kg	1	2/25/2022 3:50:00 PM	65784
Ethylbenzene	ND	0.049		mg/Kg	1	2/25/2022 3:50:00 PM	65784
Xylenes, Total	ND	0.097		mg/Kg	1	2/25/2022 3:50:00 PM	65784
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	2/25/2022 3:50:00 PM	65784

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2202B33

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-05 0'

Project: Avalanche Journal Battery

Collection Date: 2/22/2022 10:45:00 AM

Lab ID: 2202B33-004

Matrix: SOIL

Received Date: 2/24/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	1000	60		mg/Kg	20	2/26/2022 3:24:05 AM	65814
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	1900	200		mg/Kg	20	2/28/2022 11:59:09 AM	65806
Motor Oil Range Organics (MRO)	2600	990		mg/Kg	20	2/28/2022 11:59:09 AM	65806
Surr: DNOP	0	51.1-141	S	%Rec	20	2/28/2022 11:59:09 AM	65806
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/25/2022 4:09:00 PM	65784
Surr: BFB	102	70-130		%Rec	1	2/25/2022 4:09:00 PM	65784
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/25/2022 4:09:00 PM	65784
Toluene	ND	0.047		mg/Kg	1	2/25/2022 4:09:00 PM	65784
Ethylbenzene	ND	0.047		mg/Kg	1	2/25/2022 4:09:00 PM	65784
Xylenes, Total	ND	0.095		mg/Kg	1	2/25/2022 4:09:00 PM	65784
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	2/25/2022 4:09:00 PM	65784

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2202B33

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-05 3'

Project: Avalanche Journal Battery

Collection Date: 2/22/2022 10:50:00 AM

Lab ID: 2202B33-005

Matrix: SOIL

Received Date: 2/24/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	2700	150		mg/Kg	50	2/28/2022 2:59:26 PM	65814
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	170	47		mg/Kg	5	2/28/2022 3:17:59 PM	65806
Motor Oil Range Organics (MRO)	300	230		mg/Kg	5	2/28/2022 3:17:59 PM	65806
Surr: DNOP	89.4	51.1-141		%Rec	5	2/28/2022 3:17:59 PM	65806
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/25/2022 4:29:00 PM	65784
Surr: BFB	106	70-130		%Rec	1	2/25/2022 4:29:00 PM	65784
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/25/2022 4:29:00 PM	65784
Toluene	ND	0.048		mg/Kg	1	2/25/2022 4:29:00 PM	65784
Ethylbenzene	ND	0.048		mg/Kg	1	2/25/2022 4:29:00 PM	65784
Xylenes, Total	ND	0.096		mg/Kg	1	2/25/2022 4:29:00 PM	65784
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	2/25/2022 4:29:00 PM	65784

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2202B33

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-05 6'

Project: Avalanche Journal Battery

Collection Date: 2/22/2022 10:55:00 AM

Lab ID: 2202B33-006

Matrix: SOIL

Received Date: 2/24/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	2500	150		mg/Kg	50	2/28/2022 3:11:50 PM	65814
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	300	96		mg/Kg	10	2/28/2022 2:03:35 PM	65806
Motor Oil Range Organics (MRO)	620	480		mg/Kg	10	2/28/2022 2:03:35 PM	65806
Surr: DNOP	0	51.1-141	S	%Rec	10	2/28/2022 2:03:35 PM	65806
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/25/2022 4:49:00 PM	65784
Surr: BFB	107	70-130		%Rec	1	2/25/2022 4:49:00 PM	65784
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/25/2022 4:49:00 PM	65784
Toluene	ND	0.048		mg/Kg	1	2/25/2022 4:49:00 PM	65784
Ethylbenzene	ND	0.048		mg/Kg	1	2/25/2022 4:49:00 PM	65784
Xylenes, Total	ND	0.096		mg/Kg	1	2/25/2022 4:49:00 PM	65784
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	2/25/2022 4:49:00 PM	65784

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		



## Analytical Report

Lab Order 2202B33

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-06 0'

Project: Avalanche Journal Battery

Collection Date: 2/22/2022 11:00:00 AM

Lab ID: 2202B33-007

Matrix: SOIL

Received Date: 2/24/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	2/26/2022 4:26:08 AM	65814
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	2/28/2022 10:31:00 AM	65806
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	2/28/2022 10:31:00 AM	65806
Surr: DNOP	98.5	51.1-141		%Rec	1	2/28/2022 10:31:00 AM	65806
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/25/2022 5:09:00 PM	65784
Surr: BFB	107	70-130		%Rec	1	2/25/2022 5:09:00 PM	65784
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	2/25/2022 5:09:00 PM	65784
Toluene	ND	0.046		mg/Kg	1	2/25/2022 5:09:00 PM	65784
Ethylbenzene	ND	0.046		mg/Kg	1	2/25/2022 5:09:00 PM	65784
Xylenes, Total	ND	0.092		mg/Kg	1	2/25/2022 5:09:00 PM	65784
Surr: 4-Bromofluorobenzene	90.8	70-130		%Rec	1	2/25/2022 5:09:00 PM	65784

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2202B33

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-06 3'

Project: Avalanche Journal Battery

Collection Date: 2/22/2022 11:05:00 AM

Lab ID: 2202B33-008

Matrix: SOIL

Received Date: 2/24/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	580	61		mg/Kg	20	2/26/2022 4:38:32 AM	65814
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/28/2022 11:12:58 AM	65806
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/28/2022 11:12:58 AM	65806
Surr: DNOP	98.5	51.1-141		%Rec	1	2/28/2022 11:12:58 AM	65806
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/25/2022 5:28:00 PM	65784
Surr: BFB	103	70-130		%Rec	1	2/25/2022 5:28:00 PM	65784
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	2/25/2022 5:28:00 PM	65784
Toluene	ND	0.047		mg/Kg	1	2/25/2022 5:28:00 PM	65784
Ethylbenzene	ND	0.047		mg/Kg	1	2/25/2022 5:28:00 PM	65784
Xylenes, Total	ND	0.094		mg/Kg	1	2/25/2022 5:28:00 PM	65784
Surr: 4-Bromofluorobenzene	88.6	70-130		%Rec	1	2/25/2022 5:28:00 PM	65784

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2202B33

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-06 6'

Project: Avalanche Journal Battery

Collection Date: 2/22/2022 11:10:00 AM

Lab ID: 2202B33-009

Matrix: SOIL

Received Date: 2/24/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	1400	60		mg/Kg	20	2/28/2022 2:26:05 PM	65834
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/28/2022 11:23:26 AM	65806
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/28/2022 11:23:26 AM	65806
Surr: DNOP	97.5	51.1-141		%Rec	1	2/28/2022 11:23:26 AM	65806
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/25/2022 5:48:00 PM	65784
Surr: BFB	106	70-130		%Rec	1	2/25/2022 5:48:00 PM	65784
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	2/25/2022 5:48:00 PM	65784
Toluene	ND	0.049		mg/Kg	1	2/25/2022 5:48:00 PM	65784
Ethylbenzene	ND	0.049		mg/Kg	1	2/25/2022 5:48:00 PM	65784
Xylenes, Total	ND	0.099		mg/Kg	1	2/25/2022 5:48:00 PM	65784
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	2/25/2022 5:48:00 PM	65784

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2202B33

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-07 0'

Project: Avalanche Journal Battery

Collection Date: 2/22/2022 11:15:00 AM

Lab ID: 2202B33-010

Matrix: SOIL

Received Date: 2/24/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	61	60		mg/Kg	20	2/28/2022 3:03:20 PM	65834
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/28/2022 11:33:57 AM	65806
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/28/2022 11:33:57 AM	65806
Surr: DNOP	96.1	51.1-141		%Rec	1	2/28/2022 11:33:57 AM	65806
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/25/2022 6:08:00 PM	65784
Surr: BFB	105	70-130		%Rec	1	2/25/2022 6:08:00 PM	65784
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/25/2022 6:08:00 PM	65784
Toluene	ND	0.049		mg/Kg	1	2/25/2022 6:08:00 PM	65784
Ethylbenzene	ND	0.049		mg/Kg	1	2/25/2022 6:08:00 PM	65784
Xylenes, Total	ND	0.098		mg/Kg	1	2/25/2022 6:08:00 PM	65784
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	2/25/2022 6:08:00 PM	65784

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2202B33

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-07 3'

Project: Avalanche Journal Battery

Collection Date: 2/22/2022 11:20:00 AM

Lab ID: 2202B33-011

Matrix: SOIL

Received Date: 2/24/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	470	60		mg/Kg	20	2/28/2022 3:15:45 PM	65834
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/28/2022 11:44:28 AM	65806
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/28/2022 11:44:28 AM	65806
Surr: DNOP	99.5	51.1-141		%Rec	1	2/28/2022 11:44:28 AM	65806
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/25/2022 7:07:00 PM	65784
Surr: BFB	110	70-130		%Rec	1	2/25/2022 7:07:00 PM	65784
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	2/25/2022 7:07:00 PM	65784
Toluene	ND	0.050		mg/Kg	1	2/25/2022 7:07:00 PM	65784
Ethylbenzene	ND	0.050		mg/Kg	1	2/25/2022 7:07:00 PM	65784
Xylenes, Total	ND	0.10		mg/Kg	1	2/25/2022 7:07:00 PM	65784
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	2/25/2022 7:07:00 PM	65784

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2202B33

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-07 6'

Project: Avalanche Journal Battery

Collection Date: 2/22/2022 11:25:00 AM

Lab ID: 2202B33-012

Matrix: SOIL

Received Date: 2/24/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	990	60		mg/Kg	20	2/28/2022 3:28:10 PM	65834
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/28/2022 11:54:59 AM	65806
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/28/2022 11:54:59 AM	65806
Surr: DNOP	90.2	51.1-141		%Rec	1	2/28/2022 11:54:59 AM	65806
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/25/2022 7:27:00 PM	65784
Surr: BFB	108	70-130		%Rec	1	2/25/2022 7:27:00 PM	65784
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/25/2022 7:27:00 PM	65784
Toluene	ND	0.048		mg/Kg	1	2/25/2022 7:27:00 PM	65784
Ethylbenzene	ND	0.048		mg/Kg	1	2/25/2022 7:27:00 PM	65784
Xylenes, Total	ND	0.096		mg/Kg	1	2/25/2022 7:27:00 PM	65784
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	2/25/2022 7:27:00 PM	65784

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2202B33

04-Mar-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>MB-65814</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65814</b>	RunNo: <b>86104</b>								
Prep Date: <b>2/25/2022</b>	Analysis Date: <b>2/25/2022</b>	SeqNo: <b>3035102</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-65814</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65814</b>	RunNo: <b>86104</b>								
Prep Date: <b>2/25/2022</b>	Analysis Date: <b>2/25/2022</b>	SeqNo: <b>3035103</b>	Units: <b>mg/Kg</b>							
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: <b>MB-65834</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65834</b>	RunNo: <b>86137</b>								
Prep Date: <b>2/28/2022</b>	Analysis Date: <b>2/28/2022</b>	SeqNo: <b>3036314</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-65834</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65834</b>	RunNo: <b>86137</b>								
Prep Date: <b>2/28/2022</b>	Analysis Date: <b>2/28/2022</b>	SeqNo: <b>3036315</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.0	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 Quantitative 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#: 2202B33

04-Mar-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>LCS-65806</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>65806</b>			RunNo: <b>86130</b>						
Prep Date: <b>2/25/2022</b>	Analysis Date: <b>2/28/2022</b>			SeqNo: <b>3035171</b>	Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	101	68.9	135			
Surr: DNOP	5.2		5.000		104	51.1	141			

Sample ID: <b>MB-65806</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>65806</b>			RunNo: <b>86130</b>						
Prep Date: <b>2/25/2022</b>	Analysis Date: <b>2/28/2022</b>			SeqNo: <b>3035172</b>	Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		108	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 Quantitative 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#: 2202B33

04-Mar-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>lcs-65784</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>65784</b>			RunNo: <b>86123</b>						
Prep Date: <b>2/24/2022</b>	Analysis Date: <b>2/25/2022</b>			SeqNo: <b>3034569</b>	Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	116	78.6	131			
Surr: BFB	1300		1000		129	70	130			

Sample ID: <b>mb-65784</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>65784</b>			RunNo: <b>86123</b>						
Prep Date: <b>2/24/2022</b>	Analysis Date: <b>2/25/2022</b>			SeqNo: <b>3034570</b>	Units: <b>mg/Kg</b>					
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		111	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 Quantitative 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#: 2202B33

04-Mar-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>ics-65784</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>65784</b>			RunNo: <b>86123</b>						
Prep Date: <b>2/24/2022</b>	Analysis Date: <b>2/25/2022</b>			SeqNo: <b>3034622</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.3	70	130			

Sample ID: <b>mb-65784</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>65784</b>			RunNo: <b>86123</b>						
Prep Date: <b>2/24/2022</b>	Analysis Date: <b>2/25/2022</b>			SeqNo: <b>3034623</b>		Units: <b>mg/Kg</b>				
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	0.98		1.000		97.8	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 Quantitative 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  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: EOG

Work Order Number: 2202B33

RcptNo: 1

Received By: Joseph Alderette 2/24/2022 8:00:00 AM

Completed By: Sean Livingston 2/24/2022 8:55:10 AM

Reviewed By: JZ 2/24/22

ST  
S. Livingston

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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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: TMC 2/24/22

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good				





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

March 04, 2022

Mike Moffitt

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX

RE: Avalanche Journal Battery

OrderNo.: 2202C06

Dear Mike Moffitt:

Hall Environmental Analysis Laboratory received 12 sample(s) on 2/25/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109



## Analytical Report

Lab Order 2202C06

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-08 0'

Project: Avalanche Journal Battery

Collection Date: 2/23/2022 9:30:00 AM

Lab ID: 2202C06-001

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	2/28/2022 10:17:46 PM	65845
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	9.8	8.0		mg/Kg	1	3/1/2022 11:45:10 AM	65816
Motor Oil Range Organics (MRO)	69	40		mg/Kg	1	3/1/2022 11:45:10 AM	65816
Surr: DNOP	97.4	51.1-141		%Rec	1	3/1/2022 11:45:10 AM	65816
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/28/2022 1:37:00 PM	65808
Surr: BFB	111	70-130		%Rec	1	2/28/2022 1:37:00 PM	65808
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	2/28/2022 1:37:00 PM	65808
Toluene	ND	0.047		mg/Kg	1	2/28/2022 1:37:00 PM	65808
Ethylbenzene	ND	0.047		mg/Kg	1	2/28/2022 1:37:00 PM	65808
Xylenes, Total	ND	0.094		mg/Kg	1	2/28/2022 1:37:00 PM	65808
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	2/28/2022 1:37:00 PM	65808

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2202C06

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-08 3'

Project: Avalanche Journal Battery

Collection Date: 2/23/2022 9:35:00 AM

Lab ID: 2202C06-002

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	1300	60		mg/Kg	20	2/28/2022 10:55:01 PM	65845
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	3/1/2022 3:07:21 AM	65816
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/1/2022 3:07:21 AM	65816
Surr: DNOP	99.0	51.1-141		%Rec	1	3/1/2022 3:07:21 AM	65816
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/28/2022 2:37:00 PM	65808
Surr: BFB	111	70-130		%Rec	1	2/28/2022 2:37:00 PM	65808
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/28/2022 2:37:00 PM	65808
Toluene	ND	0.049		mg/Kg	1	2/28/2022 2:37:00 PM	65808
Ethylbenzene	ND	0.049		mg/Kg	1	2/28/2022 2:37:00 PM	65808
Xylenes, Total	ND	0.097		mg/Kg	1	2/28/2022 2:37:00 PM	65808
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	2/28/2022 2:37:00 PM	65808

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2202C06

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-08 6'

Project: Avalanche Journal Battery

Collection Date: 2/23/2022 9:40:00 AM

Lab ID: 2202C06-003

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	3000	150		mg/Kg	50	3/1/2022 1:38:06 PM	65845
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/1/2022 12:14:16 PM	65816
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/1/2022 12:14:16 PM	65816
Surr: DNOP	91.5	51.1-141		%Rec	1	3/1/2022 12:14:16 PM	65816
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/28/2022 2:58:00 PM	65808
Surr: BFB	112	70-130		%Rec	1	2/28/2022 2:58:00 PM	65808
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/28/2022 2:58:00 PM	65808
Toluene	ND	0.049		mg/Kg	1	2/28/2022 2:58:00 PM	65808
Ethylbenzene	ND	0.049		mg/Kg	1	2/28/2022 2:58:00 PM	65808
Xylenes, Total	ND	0.098		mg/Kg	1	2/28/2022 2:58:00 PM	65808
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	2/28/2022 2:58:00 PM	65808

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2202C06

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-09 0'

Project: Avalanche Journal Battery

Collection Date: 2/23/2022 9:45:00 AM

Lab ID: 2202C06-004

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	1200	60		mg/Kg	20	2/28/2022 11:19:49 PM	65845
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	3/1/2022 12:28:56 PM	65816
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/1/2022 12:28:56 PM	65816
Surr: DNOP	105	51.1-141		%Rec	1	3/1/2022 12:28:56 PM	65816
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/28/2022 3:21:00 PM	65808
Surr: BFB	109	70-130		%Rec	1	2/28/2022 3:21:00 PM	65808
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	2/28/2022 3:21:00 PM	65808
Toluene	ND	0.047		mg/Kg	1	2/28/2022 3:21:00 PM	65808
Ethylbenzene	ND	0.047		mg/Kg	1	2/28/2022 3:21:00 PM	65808
Xylenes, Total	ND	0.093		mg/Kg	1	2/28/2022 3:21:00 PM	65808
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	2/28/2022 3:21:00 PM	65808

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2202C06

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-09 3'

Project: Avalanche Journal Battery

Collection Date: 2/23/2022 9:50:00 AM

Lab ID: 2202C06-005

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	3/1/2022 11:09:08 AM	65853
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/1/2022 3:38:40 AM	65816
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/1/2022 3:38:40 AM	65816
Surr: DNOP	97.5	51.1-141		%Rec	1	3/1/2022 3:38:40 AM	65816
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/28/2022 4:20:00 PM	65808
Surr: BFB	103	70-130		%Rec	1	2/28/2022 4:20:00 PM	65808
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	2/28/2022 4:20:00 PM	65808
Toluene	ND	0.050		mg/Kg	1	2/28/2022 4:20:00 PM	65808
Ethylbenzene	ND	0.050		mg/Kg	1	2/28/2022 4:20:00 PM	65808
Xylenes, Total	ND	0.10		mg/Kg	1	2/28/2022 4:20:00 PM	65808
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	1	2/28/2022 4:20:00 PM	65808

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2202C06

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-09 6'

Project: Avalanche Journal Battery

Collection Date: 2/23/2022 9:55:00 AM

Lab ID: 2202C06-006

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	88	60		mg/Kg	20	3/1/2022 11:46:23 AM	65853
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	3/1/2022 3:49:09 AM	65816
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/1/2022 3:49:09 AM	65816
Surr: DNOP	92.7	51.1-141		%Rec	1	3/1/2022 3:49:09 AM	65816
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/28/2022 4:40:00 PM	65808
Surr: BFB	105	70-130		%Rec	1	2/28/2022 4:40:00 PM	65808
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/28/2022 4:40:00 PM	65808
Toluene	ND	0.047		mg/Kg	1	2/28/2022 4:40:00 PM	65808
Ethylbenzene	ND	0.047		mg/Kg	1	2/28/2022 4:40:00 PM	65808
Xylenes, Total	ND	0.095		mg/Kg	1	2/28/2022 4:40:00 PM	65808
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	2/28/2022 4:40:00 PM	65808

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2202C06

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-10 0'

Project: Avalanche Journal Battery

Collection Date: 2/23/2022 10:00:00 AM

Lab ID: 2202C06-007

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	3/1/2022 11:58:48 AM	65853
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/1/2022 3:59:40 AM	65816
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/1/2022 3:59:40 AM	65816
Surr: DNOP	105	51.1-141		%Rec	1	3/1/2022 3:59:40 AM	65816
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/28/2022 4:59:00 PM	65808
Surr: BFB	101	70-130		%Rec	1	2/28/2022 4:59:00 PM	65808
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/28/2022 4:59:00 PM	65808
Toluene	ND	0.048		mg/Kg	1	2/28/2022 4:59:00 PM	65808
Ethylbenzene	ND	0.048		mg/Kg	1	2/28/2022 4:59:00 PM	65808
Xylenes, Total	ND	0.095		mg/Kg	1	2/28/2022 4:59:00 PM	65808
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	2/28/2022 4:59:00 PM	65808

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2202C06

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-10 3'

Project: Avalanche Journal Battery

Collection Date: 2/23/2022 10:05:00 AM

Lab ID: 2202C06-008

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	59		mg/Kg	20	3/1/2022 12:11:13 PM	65853
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/1/2022 4:10:11 AM	65816
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/1/2022 4:10:11 AM	65816
Surr: DNOP	98.8	51.1-141		%Rec	1	3/1/2022 4:10:11 AM	65816
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/28/2022 5:19:00 PM	65808
Surr: BFB	110	70-130		%Rec	1	2/28/2022 5:19:00 PM	65808
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/28/2022 5:19:00 PM	65808
Toluene	ND	0.049		mg/Kg	1	2/28/2022 5:19:00 PM	65808
Ethylbenzene	ND	0.049		mg/Kg	1	2/28/2022 5:19:00 PM	65808
Xylenes, Total	ND	0.097		mg/Kg	1	2/28/2022 5:19:00 PM	65808
Surr: 4-Bromofluorobenzene	92.3	70-130		%Rec	1	2/28/2022 5:19:00 PM	65808

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2202C06

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-10 6'

Project: Avalanche Journal Battery

Collection Date: 2/23/2022 10:10:00 AM

Lab ID: 2202C06-009

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	3/1/2022 12:23:37 PM	65853
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/1/2022 11:40:16 AM	65844
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/1/2022 11:40:16 AM	65844
Surr: DNOP	107	51.1-141		%Rec	1	3/1/2022 11:40:16 AM	65844
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/28/2022 5:39:00 PM	65808
Surr: BFB	106	70-130		%Rec	1	2/28/2022 5:39:00 PM	65808
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/28/2022 5:39:00 PM	65808
Toluene	ND	0.048		mg/Kg	1	2/28/2022 5:39:00 PM	65808
Ethylbenzene	ND	0.048		mg/Kg	1	2/28/2022 5:39:00 PM	65808
Xylenes, Total	ND	0.097		mg/Kg	1	2/28/2022 5:39:00 PM	65808
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	2/28/2022 5:39:00 PM	65808

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2202C06

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-11 0'

Project: Avalanche Journal Battery

Collection Date: 2/23/2022 10:15:00 AM

Lab ID: 2202C06-010

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	3/1/2022 12:36:02 PM	65853
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	1900	98		mg/Kg	10	3/1/2022 1:42:39 PM	65844
Motor Oil Range Organics (MRO)	2000	490		mg/Kg	10	3/1/2022 1:42:39 PM	65844
Surr: DNOP	0	51.1-141	S	%Rec	10	3/1/2022 1:42:39 PM	65844
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/28/2022 5:58:00 PM	65808
Surr: BFB	107	70-130		%Rec	1	2/28/2022 5:58:00 PM	65808
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/28/2022 5:58:00 PM	65808
Toluene	ND	0.048		mg/Kg	1	2/28/2022 5:58:00 PM	65808
Ethylbenzene	ND	0.048		mg/Kg	1	2/28/2022 5:58:00 PM	65808
Xylenes, Total	ND	0.096		mg/Kg	1	2/28/2022 5:58:00 PM	65808
Surr: 4-Bromofluorobenzene	89.0	70-130		%Rec	1	2/28/2022 5:58:00 PM	65808

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2202C06

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-11 3'

Project: Avalanche Journal Battery

Collection Date: 2/23/2022 10:20:00 AM

Lab ID: 2202C06-011

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	3/1/2022 1:13:16 PM	65853
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	29	9.6		mg/Kg	1	3/1/2022 2:32:27 PM	65844
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/1/2022 2:32:27 PM	65844
Surr: DNOP	104	51.1-141		%Rec	1	3/1/2022 2:32:27 PM	65844
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/28/2022 6:18:00 PM	65808
Surr: BFB	105	70-130		%Rec	1	2/28/2022 6:18:00 PM	65808
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	2/28/2022 6:18:00 PM	65808
Toluene	ND	0.047		mg/Kg	1	2/28/2022 6:18:00 PM	65808
Ethylbenzene	ND	0.047		mg/Kg	1	2/28/2022 6:18:00 PM	65808
Xylenes, Total	ND	0.093		mg/Kg	1	2/28/2022 6:18:00 PM	65808
Surr: 4-Bromofluorobenzene	91.2	70-130		%Rec	1	2/28/2022 6:18:00 PM	65808

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2202C06

Date Reported: 3/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-11 6'

Project: Avalanche Journal Battery

Collection Date: 2/23/2022 10:25:00 AM

Lab ID: 2202C06-012

Matrix: SOIL

Received Date: 2/25/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	3/1/2022 1:25:41 PM	65853
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	210	9.7		mg/Kg	1	3/1/2022 2:57:19 PM	65844
Motor Oil Range Organics (MRO)	250	48		mg/Kg	1	3/1/2022 2:57:19 PM	65844
Surr: DNOP	110	51.1-141		%Rec	1	3/1/2022 2:57:19 PM	65844
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/28/2022 6:38:00 PM	65808
Surr: BFB	106	70-130		%Rec	1	2/28/2022 6:38:00 PM	65808
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	2/28/2022 6:38:00 PM	65808
Toluene	ND	0.050		mg/Kg	1	2/28/2022 6:38:00 PM	65808
Ethylbenzene	ND	0.050		mg/Kg	1	2/28/2022 6:38:00 PM	65808
Xylenes, Total	ND	0.10		mg/Kg	1	2/28/2022 6:38:00 PM	65808
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	2/28/2022 6:38:00 PM	65808

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2202C06

04-Mar-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>MB-65845</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65845</b>	RunNo: <b>86137</b>								
Prep Date: <b>2/28/2022</b>	Analysis Date: <b>2/28/2022</b>	SeqNo: <b>3036349</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-65845</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65845</b>	RunNo: <b>86137</b>								
Prep Date: <b>2/28/2022</b>	Analysis Date: <b>2/28/2022</b>	SeqNo: <b>3036350</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.0	90	110			

Sample ID: <b>MB-65853</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65853</b>	RunNo: <b>86158</b>								
Prep Date: <b>3/1/2022</b>	Analysis Date: <b>3/1/2022</b>	SeqNo: <b>3037748</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-65853</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65853</b>	RunNo: <b>86158</b>								
Prep Date: <b>3/1/2022</b>	Analysis Date: <b>3/1/2022</b>	SeqNo: <b>3037749</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.8	90	110			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2202C06

04-Mar-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>LCS-65816</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65816</b>	RunNo: <b>86129</b>								
Prep Date: <b>2/25/2022</b>	Analysis Date: <b>3/1/2022</b>	SeqNo: <b>3036200</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	68.9	135			
Surr: DNOP	4.0		5.000		80.0	51.1	141			

Sample ID: <b>MB-65816</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65816</b>	RunNo: <b>86129</b>								
Prep Date: <b>2/25/2022</b>	Analysis Date: <b>3/1/2022</b>	SeqNo: <b>3036201</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.3	51.1	141			

Sample ID: <b>MB-65844</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65844</b>	RunNo: <b>86161</b>								
Prep Date: <b>2/28/2022</b>	Analysis Date: <b>3/1/2022</b>	SeqNo: <b>3036631</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		105	51.1	141			

Sample ID: <b>LCS-65844</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65844</b>	RunNo: <b>86161</b>								
Prep Date: <b>2/28/2022</b>	Analysis Date: <b>3/1/2022</b>	SeqNo: <b>3036632</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.8	68.9	135			
Surr: DNOP	4.8		5.000		95.3	51.1	141			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2202C06

04-Mar-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>lcs-65808</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>65808</b>			RunNo: <b>86147</b>						
Prep Date: <b>2/25/2022</b>	Analysis Date: <b>2/28/2022</b>			SeqNo: <b>3035960</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	78.6	131			
Surr: BFB	1500		1000		153	70	130			S

Sample ID: <b>mb-65808</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>65808</b>			RunNo: <b>86147</b>						
Prep Date: <b>2/25/2022</b>	Analysis Date: <b>2/28/2022</b>			SeqNo: <b>3035961</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1200		1000		122	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 Quantitative 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#: 2202C06

04-Mar-22

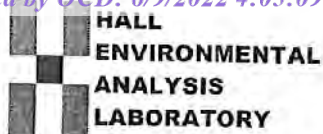
**Client:** EOG  
**Project:** Avalanche Journal Battery

Sample ID: <b>lcs-65808</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>65808</b>			RunNo: <b>86147</b>						
Prep Date: <b>2/25/2022</b>	Analysis Date: <b>2/28/2022</b>			SeqNo: <b>3036041</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.8	80	120			
Toluene	0.96	0.050	1.000	0	95.7	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.5	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.9	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		127	70	130			

Sample ID: <b>mb-65808</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>65808</b>			RunNo: <b>86147</b>						
Prep Date: <b>2/25/2022</b>	Analysis Date: <b>2/28/2022</b>			SeqNo: <b>3036042</b>		Units: <b>mg/Kg</b>				
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	1.1		1.000		108	70	130			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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

## Sample Log-In Check List

Client Name: EOG

Work Order Number: 2202C06

RcptNo: 1

Received By: Cheyenne Cason

2/25/2022 8:00:00 AM

*Chad*

Completed By: Cheyenne Cason

2/25/2022 8:15:01 AM

*Chad*

Reviewed By:

*JA 2/25/22*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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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:

(&lt;2 or &gt;12 unless noted)

Adjusted?

Checked by: *KPG 2/25/22*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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.7	Good	Not Present			







Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

March 18, 2022

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: Avalanch Battery

OrderNo.: 2203353

Dear Michael Moffitt:

Hall Environmental Analysis Laboratory received 15 sample(s) on 3/5/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2203353

Date Reported: 3/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-12 0.0'

Project: Avalanche Battery

Collection Date: 3/2/2022 9:30:00 AM

Lab ID: 2203353-001

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	1200	190		mg/Kg	20	3/9/2022 3:08:30 PM
Motor Oil Range Organics (MRO)	2400	970		mg/Kg	20	3/9/2022 3:08:30 PM
Surr: DNOP	0	51.1-141	S	%Rec	20	3/9/2022 3:08:30 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	3/10/2022 1:50:02 PM
Surr: BFB	101	70-130		%Rec	5	3/10/2022 1:50:02 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.12		mg/Kg	5	3/10/2022 1:50:02 PM
Toluene	ND	0.25		mg/Kg	5	3/10/2022 1:50:02 PM
Ethylbenzene	ND	0.25		mg/Kg	5	3/10/2022 1:50:02 PM
Xylenes, Total	ND	0.49		mg/Kg	5	3/10/2022 1:50:02 PM
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	5	3/10/2022 1:50:02 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	680	60		mg/Kg	20	3/11/2022 1:09:10 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2203353

Date Reported: 3/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-12 2.0'

Project: Avalanch Battery

Collection Date: 3/2/2022 9:40:00 AM

Lab ID: 2203353-002

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/10/2022 1:11:53 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/10/2022 1:11:53 AM
Surr: DNOP	94.2	51.1-141		%Rec	1	3/10/2022 1:11:53 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/10/2022 2:13:43 PM
Surr: BFB	112	70-130		%Rec	1	3/10/2022 2:13:43 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	3/10/2022 2:13:43 PM
Toluene	ND	0.049		mg/Kg	1	3/10/2022 2:13:43 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/10/2022 2:13:43 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/10/2022 2:13:43 PM
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	3/10/2022 2:13:43 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	2700	150		mg/Kg	50	3/15/2022 8:51:27 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2203353

Date Reported: 3/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-13 0.0'

Project: Avalanche Battery

Collection Date: 3/2/2022 10:00:00 AM

Lab ID: 2203353-003

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/9/2022 3:56:14 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/9/2022 3:56:14 AM
Surr: DNOP	53.5	51.1-141		%Rec	1	3/9/2022 3:56:14 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/10/2022 3:24:52 PM
Surr: BFB	108	70-130		%Rec	1	3/10/2022 3:24:52 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	3/10/2022 3:24:52 PM
Toluene	ND	0.050		mg/Kg	1	3/10/2022 3:24:52 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/10/2022 3:24:52 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/10/2022 3:24:52 PM
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	1	3/10/2022 3:24:52 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	59		mg/Kg	20	3/11/2022 1:58:48 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2203353

Date Reported: 3/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-13 2.0'

Project: Avalanche Battery

Collection Date: 3/2/2022 10:10:00 AM

Lab ID: 2203353-004

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/10/2022 1:35:51 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/10/2022 1:35:51 AM
Surr: DNOP	86.4	51.1-141		%Rec	1	3/10/2022 1:35:51 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/10/2022 3:48:31 PM
Surr: BFB	104	70-130		%Rec	1	3/10/2022 3:48:31 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	3/10/2022 3:48:31 PM
Toluene	ND	0.049		mg/Kg	1	3/10/2022 3:48:31 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/10/2022 3:48:31 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/10/2022 3:48:31 PM
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	3/10/2022 3:48:31 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	3/11/2022 2:11:12 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2203353

Date Reported: 3/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-14 0.0'

Project: Avalanch Battery

Collection Date: 3/2/2022 10:30:00 AM

Lab ID: 2203353-005

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	3/9/2022 4:17:07 AM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	3/9/2022 4:17:07 AM
Surr: DNOP	65.1	51.1-141		%Rec	1	3/9/2022 4:17:07 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/10/2022 4:12:07 PM
Surr: BFB	107	70-130		%Rec	1	3/10/2022 4:12:07 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	3/10/2022 4:12:07 PM
Toluene	ND	0.049		mg/Kg	1	3/10/2022 4:12:07 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/10/2022 4:12:07 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/10/2022 4:12:07 PM
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	3/10/2022 4:12:07 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	3/11/2022 2:23:36 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2203353

Date Reported: 3/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-14 2.0'

Project: Avalanch Battery

Collection Date: 3/2/2022 10:40:00 AM

Lab ID: 2203353-006

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/9/2022 4:27:34 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/9/2022 4:27:34 AM
Surr: DNOP	55.6	51.1-141		%Rec	1	3/9/2022 4:27:34 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/10/2022 4:35:48 PM
Surr: BFB	107	70-130		%Rec	1	3/10/2022 4:35:48 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	3/10/2022 4:35:48 PM
Toluene	ND	0.049		mg/Kg	1	3/10/2022 4:35:48 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/10/2022 4:35:48 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/10/2022 4:35:48 PM
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	3/10/2022 4:35:48 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	940	60		mg/Kg	20	3/11/2022 2:36:00 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2203353

Date Reported: 3/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-15 0.0'

Project: Avalanche Battery

Collection Date: 3/2/2022 11:00:00 AM

Lab ID: 2203353-007

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/9/2022 4:38:13 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/9/2022 4:38:13 AM
Surr: DNOP	59.0	51.1-141		%Rec	1	3/9/2022 4:38:13 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/10/2022 4:59:25 PM
Surr: BFB	107	70-130		%Rec	1	3/10/2022 4:59:25 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	3/10/2022 4:59:25 PM
Toluene	ND	0.049		mg/Kg	1	3/10/2022 4:59:25 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/10/2022 4:59:25 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/10/2022 4:59:25 PM
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	3/10/2022 4:59:25 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	3/11/2022 2:48:25 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2203353

Date Reported: 3/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-16 0.0'

Project: Avalanch Battery

Collection Date: 3/2/2022 11:30:00 AM

Lab ID: 2203353-008

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/9/2022 4:48:48 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/9/2022 4:48:48 AM
Surr: DNOP	55.3	51.1-141		%Rec	1	3/9/2022 4:48:48 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/10/2022 5:22:52 PM
Surr: BFB	109	70-130		%Rec	1	3/10/2022 5:22:52 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	3/10/2022 5:22:52 PM
Toluene	ND	0.049		mg/Kg	1	3/10/2022 5:22:52 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/10/2022 5:22:52 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/10/2022 5:22:52 PM
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	3/10/2022 5:22:52 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	3/11/2022 3:25:37 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2203353

Date Reported: 3/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-16 2.0

Project: Avalanche Battery

Collection Date: 3/2/2022 11:40:00 AM

Lab ID: 2203353-009

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/9/2022 4:59:24 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/9/2022 4:59:24 AM
Surr: DNOP	56.5	51.1-141		%Rec	1	3/9/2022 4:59:24 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/10/2022 5:46:33 PM
Surr: BFB	107	70-130		%Rec	1	3/10/2022 5:46:33 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	3/10/2022 5:46:33 PM
Toluene	ND	0.049		mg/Kg	1	3/10/2022 5:46:33 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/10/2022 5:46:33 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/10/2022 5:46:33 PM
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	3/10/2022 5:46:33 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	3/11/2022 3:38:01 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2203353

Date Reported: 3/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-17 0.0'

Project: Avalanch Battery

Collection Date: 3/3/2022 10:00:00 AM

Lab ID: 2203353-010

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: JME
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/10/2022 2:00:38 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/10/2022 2:00:38 PM
Surr: DNOP	106	51.1-141		%Rec	1	3/10/2022 2:00:38 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/10/2022 6:10:08 PM
Surr: BFB	106	70-130		%Rec	1	3/10/2022 6:10:08 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/10/2022 6:10:08 PM
Toluene	ND	0.049		mg/Kg	1	3/10/2022 6:10:08 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/10/2022 6:10:08 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/10/2022 6:10:08 PM
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	3/10/2022 6:10:08 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: CAS
Chloride	ND	60		mg/Kg	20	3/11/2022 3:50:26 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2203353

Date Reported: 3/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-17 2.0'

Project: Avalanch Battery

Collection Date: 3/3/2022 10:10:00 AM

Lab ID: 2203353-011

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/11/2022 8:48:22 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/11/2022 8:48:22 AM
Surr: DNOP	83.9	51.1-141		%Rec	1	3/11/2022 8:48:22 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/10/2022 6:33:45 PM
Surr: BFB	104	70-130		%Rec	1	3/10/2022 6:33:45 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	3/10/2022 6:33:45 PM
Toluene	ND	0.050		mg/Kg	1	3/10/2022 6:33:45 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/10/2022 6:33:45 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/10/2022 6:33:45 PM
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	3/10/2022 6:33:45 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	3/11/2022 4:02:51 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2203353

Date Reported: 3/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-18 0.0'

Project: Avalanch Battery

Collection Date: 3/3/2022 10:30:00 AM

Lab ID: 2203353-012

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/11/2022 9:01:45 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/11/2022 9:01:45 AM
Surr: DNOP	94.5	51.1-141		%Rec	1	3/11/2022 9:01:45 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/10/2022 6:57:20 PM
Surr: BFB	105	70-130		%Rec	1	3/10/2022 6:57:20 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	3/10/2022 6:57:20 PM
Toluene	ND	0.049		mg/Kg	1	3/10/2022 6:57:20 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/10/2022 6:57:20 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/10/2022 6:57:20 PM
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	3/10/2022 6:57:20 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	95	60		mg/Kg	20	3/11/2022 4:15:15 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2203353

Date Reported: 3/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-18 2.0'

Project: Avalanch Battery

Collection Date: 3/3/2022 10:40:00 AM

Lab ID: 2203353-013

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/11/2022 9:15:31 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/11/2022 9:15:31 AM
Surr: DNOP	111	51.1-141		%Rec	1	3/11/2022 9:15:31 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/11/2022 12:10:00 AM
Surr: BFB	103	70-130		%Rec	1	3/11/2022 12:10:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/11/2022 12:10:00 AM
Toluene	ND	0.049		mg/Kg	1	3/11/2022 12:10:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/11/2022 12:10:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	3/11/2022 12:10:00 AM
Surr: 4-Bromofluorobenzene	87.7	70-130		%Rec	1	3/11/2022 12:10:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: CAS
Chloride	1500	60		mg/Kg	20	3/11/2022 4:27:40 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2203353

Date Reported: 3/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-20 0.0'

Project: Avalanch Battery

Collection Date: 3/3/2022 11:00:00 AM

Lab ID: 2203353-014

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: JME
Diesel Range Organics (DRO)	310	99		mg/Kg	10	3/10/2022 2:34:27 PM
Motor Oil Range Organics (MRO)	1700	490		mg/Kg	10	3/10/2022 2:34:27 PM
Surr: DNOP	0	51.1-141	S	%Rec	10	3/10/2022 2:34:27 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/11/2022 12:30:00 AM
Surr: BFB	97.3	70-130		%Rec	1	3/11/2022 12:30:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/11/2022 12:30:00 AM
Toluene	ND	0.047		mg/Kg	1	3/11/2022 12:30:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	3/11/2022 12:30:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	3/11/2022 12:30:00 AM
Surr: 4-Bromofluorobenzene	83.4	70-130		%Rec	1	3/11/2022 12:30:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: CAS
Chloride	ND	60		mg/Kg	20	3/11/2022 5:04:53 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2203353

Date Reported: 3/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-20 2.0'

Project: Avalanch Battery

Collection Date: 3/3/2022 11:20:00 AM

Lab ID: 2203353-015

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/11/2022 12:14:54 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2022 12:14:54 PM
Surr: DNOP	93.3	51.1-141		%Rec	1	3/11/2022 12:14:54 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/11/2022 12:49:00 AM
Surr: BFB	102	70-130		%Rec	1	3/11/2022 12:49:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/11/2022 12:49:00 AM
Toluene	ND	0.049		mg/Kg	1	3/11/2022 12:49:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/11/2022 12:49:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	3/11/2022 12:49:00 AM
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	3/11/2022 12:49:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: CAS
Chloride	ND	60		mg/Kg	20	3/11/2022 5:17:18 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2203353

18-Mar-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanch Battery

Sample ID: <b>MB-66120</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66120</b>	RunNo: <b>86445</b>								
Prep Date: <b>3/11/2022</b>	Analysis Date: <b>3/11/2022</b>	SeqNo: <b>3049838</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-66120</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66120</b>	RunNo: <b>86445</b>								
Prep Date: <b>3/11/2022</b>	Analysis Date: <b>3/11/2022</b>	SeqNo: <b>3049839</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.4	90	110			

Sample ID: <b>MB-66133</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66133</b>	RunNo: <b>86445</b>								
Prep Date: <b>3/11/2022</b>	Analysis Date: <b>3/11/2022</b>	SeqNo: <b>3049868</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-66133</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66133</b>	RunNo: <b>86445</b>								
Prep Date: <b>3/11/2022</b>	Analysis Date: <b>3/11/2022</b>	SeqNo: <b>3049869</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.0	90	110			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2203353

18-Mar-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanch Battery

Sample ID: <b>LCS-66002</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66002</b>	RunNo: <b>86343</b>								
Prep Date: <b>3/7/2022</b>	Analysis Date: <b>3/8/2022</b>	SeqNo: <b>3045218</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.1	68.9	135			
Surr: DNOP	4.9		5.000		97.3	51.1	141			

Sample ID: <b>MB-66002</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66002</b>	RunNo: <b>86343</b>								
Prep Date: <b>3/7/2022</b>	Analysis Date: <b>3/8/2022</b>	SeqNo: <b>3045226</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	51.1	141			

Sample ID: <b>LCS-66036</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66036</b>	RunNo: <b>86373</b>								
Prep Date: <b>3/9/2022</b>	Analysis Date: <b>3/10/2022</b>	SeqNo: <b>3047412</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.3	68.9	135			
Surr: DNOP	4.9		5.000		98.7	51.1	141			

Sample ID: <b>MB-66036</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66036</b>	RunNo: <b>86373</b>								
Prep Date: <b>3/9/2022</b>	Analysis Date: <b>3/10/2022</b>	SeqNo: <b>3047440</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	51.1	141			

Sample ID: <b>2203353-010AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BH22-17 0.0'</b>	Batch ID: <b>66036</b>	RunNo: <b>86399</b>								
Prep Date: <b>3/9/2022</b>	Analysis Date: <b>3/11/2022</b>	SeqNo: <b>3047701</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	34	9.0	44.80	4.718	65.1	36.1	154			
Surr: DNOP	3.2		4.480		70.5	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 Quantitative 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#: 2203353

18-Mar-22

Client: Vertex Resources Services, Inc.  
Project: Avalanch Battery

Sample ID: 2203353-010AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH22-17 0.0'		Batch ID: 66036		RunNo: 86399						
Prep Date: 3/9/2022		Analysis Date: 3/11/2022		SeqNo: 3047702		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.2	46.17	4.718	84.8	36.1	154	25.6	33.9	
Surr: DNOP	3.9		4.617		85.3	51.1	141	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 Quantitative 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

Page 18 of 20



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

WO#: 2203353

18-Mar-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanch Battery

Sample ID: <b>mb-65996</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65996</b>	RunNo: <b>86398</b>								
Prep Date: <b>3/7/2022</b>	Analysis Date: <b>3/10/2022</b>	SeqNo: <b>3047554</b> Units: <b>mg/Kg</b>								
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		104	70	130			

Sample ID: <b>lcs-65996</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65996</b>	RunNo: <b>86398</b>								
Prep Date: <b>3/7/2022</b>	Analysis Date: <b>3/10/2022</b>	SeqNo: <b>3047555</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	78.6	131			
Surr: BFB	1200		1000		119	70	130			

Sample ID: <b>lcs-66025</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66025</b>	RunNo: <b>86391</b>								
Prep Date: <b>3/8/2022</b>	Analysis Date: <b>3/10/2022</b>	SeqNo: <b>3047898</b> Units: <b>mg/Kg</b>								
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	78.6	131			
Surr: BFB	2300		1000		231	70	130			S

Sample ID: <b>mb-66025</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66025</b>	RunNo: <b>86391</b>								
Prep Date: <b>3/8/2022</b>	Analysis Date: <b>3/10/2022</b>	SeqNo: <b>3047899</b> Units: <b>mg/Kg</b>								
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		102	70	130			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2203353

18-Mar-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanch Battery

Sample ID: <b>mb-65996</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65996</b>	RunNo: <b>86398</b>								
Prep Date: <b>3/7/2022</b>	Analysis Date: <b>3/10/2022</b>	SeqNo: <b>3047602</b> Units: <b>mg/Kg</b>								
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		96.0	70	130			

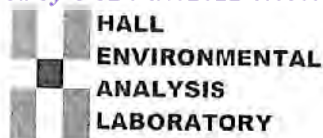
Sample ID: <b>LCS-65996</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65996</b>	RunNo: <b>86398</b>								
Prep Date: <b>3/7/2022</b>	Analysis Date: <b>3/10/2022</b>	SeqNo: <b>3047603</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.9	80	120			
Toluene	0.94	0.050	1.000	0	94.3	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.7	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.0	70	130			

Sample ID: <b>lcs-66025</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66025</b>	RunNo: <b>86391</b>								
Prep Date: <b>3/8/2022</b>	Analysis Date: <b>3/10/2022</b>	SeqNo: <b>3047952</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.0	80	120			
Toluene	0.94	0.050	1.000	0	94.5	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.6	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.1	70	130			

Sample ID: <b>mb-66025</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66025</b>	RunNo: <b>86391</b>								
Prep Date: <b>3/8/2022</b>	Analysis Date: <b>3/10/2022</b>	SeqNo: <b>3047953</b> Units: <b>mg/Kg</b>								
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	0.88		1.000		87.7	70	130			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3973 FAX: 505-345-4107  
Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: Vertex Resources  
Services, Inc.

Work Order Number: 2203353

RcptNo: 1

Received By: Cheyenne Cason 3/5/2022 8:55:00 AM

Completed By: Cheyenne Cason 3/5/2022 9:34:33 AM

Reviewed By: *CAC* 3/5/22

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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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 *KPG* 3/5/22

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Not Present			
2	0.7	Good	Not Present			
3	4.0	Good	Not Present			



## Chain-of-Custody Record

Client:

Vertex

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC☐ Other☐ EDD (Type)

Project Manager:

Mike Moffitt

Sampler:

AHT

On Ice: ☒ Yes ☐ No

# of Coolers: 3

Cooler Temp (including cp): See Check 1, 5, 6°C

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
3-2-22	0930	Soil	BH22-12	0.0'	Glass Jar	ICE
	0940		BH22-12	2.0'		
	1000		BH22-13	0.0'		
	1010		BH22-13	2.0'		
	1030		BH22-14	0.0'		
	1040		BH22-14	2.0'		
	1100		BH22-15	0.0'		
	1130		BH22-16	0.0'		
	1140		BH22-16	2.0'		

Date: Time:

Relinquished by:

Date: Time:

Relinquished by:

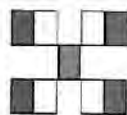
Received by:

Date: Time:

Received by:

Date: Time:

Remarks:

CC: Mike Moffitt  
& Monica PeppinHALL ENVIRONMENTAL  
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

TPH B015D (GRO / DRO / MRO)	
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
(C, F, B, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	



## Chain-of-Custody Record

Client: Vertex

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)

Accreditation:

☐ Az Compliance☐ NELAC☐ Other☐ EDD (Type)Cooler Temp (including CF): See Checklist (°C)

Container Type and #

Preservative Type

HEAL No.

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

Container Type and #

Preservative Type

HEAL No.

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

Container Type and #

Preservative Type

HEAL No.

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

Container Type and #

Preservative Type

HEAL No.

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

Container Type and #

Preservative Type

HEAL No.

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

Container Type and #

Preservative Type

HEAL No.

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

Container Type and #

Preservative Type

HEAL No.

Turn-Around Time:

5-DAY☒ Standard ☒ Rush

Project Name:

Avalanche Battery

Project #:

22E-00347

Project Manager:

Mike Moffitt

Sampler:

AMOn Ice: ☒ Yes ☐ No# of Coolers: 3Cooler Temp (including CF): See Checklist (°C)

Container Type and #

Preservative Type

HEAL No.

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

Container Type and #

Preservative Type

HEAL No.

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

Container Type and #

Preservative Type

HEAL No.

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

Container Type and #

Preservative Type

HEAL No.

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

Container Type and #

Preservative Type

HEAL No.

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

Container Type and #

Preservative Type

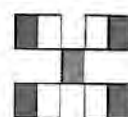
HEAL No.

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

Container Type and #

Preservative Type

HEAL No.

HALL ENVIRONMENTAL  
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

Analysis Request

Analysis Request

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Remarks:

CL: Mike MoffittMonica PeppinReceived by: Monica Peppin Date: 3/4/22 Time: 9:45Received by: Monica Peppin Date: 3/4/22 Time: 9:45Received by: Monica Peppin Date: 3/4/22 Time: 9:45Received by: Monica Peppin Date: 3/4/22 Time: 9:45Received by: Monica Peppin Date: 3/4/22 Time: 9:45Received by: Monica Peppin Date: 3/4/22 Time: 9:45Received by: Monica Peppin Date: 3/4/22 Time: 9:45Received by: Monica Peppin Date: 3/4/22 Time: 9:45





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

April 14, 2022

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Avalanche Journal Battery

OrderNo.: 2203747

Dear Michael Moffitt:

Hall Environmental Analysis Laboratory received 12 sample(s) on 3/15/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2203747

Date Reported: 4/14/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-12 4.0'

Project: Avalanche Journal Battery

Collection Date: 3/2/2022 9:50:00 AM

Lab ID: 2203747-001

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/18/2022 2:53:21 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/18/2022 2:53:21 AM
Surr: DNOP	89.7	51.1-141		%Rec	1	3/18/2022 2:53:21 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/16/2022 9:33:00 AM
Surr: BFB	103	70-130		%Rec	1	3/16/2022 9:33:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.023		mg/Kg	1	3/16/2022 9:33:00 AM
Toluene	ND	0.047		mg/Kg	1	3/16/2022 9:33:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	3/16/2022 9:33:00 AM
Xylenes, Total	ND	0.093		mg/Kg	1	3/16/2022 9:33:00 AM
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	3/16/2022 9:33:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	2600	150		mg/Kg	50	3/18/2022 4:56:07 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2203747

Date Reported: 4/14/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-14 4.0'

Project: Avalanche Journal Battery

Collection Date: 3/2/2022 10:50:00 AM

Lab ID: 2203747-003

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/18/2022 3:03:44 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/18/2022 3:03:44 AM
Surr: DNOP	84.7	51.1-141		%Rec	1	3/18/2022 3:03:44 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/16/2022 9:53:00 AM
Surr: BFB	104	70-130		%Rec	1	3/16/2022 9:53:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	3/16/2022 9:53:00 AM
Toluene	ND	0.049		mg/Kg	1	3/16/2022 9:53:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/16/2022 9:53:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	3/16/2022 9:53:00 AM
Surr: 4-Bromofluorobenzene	90.7	70-130		%Rec	1	3/16/2022 9:53:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	1600	60		mg/Kg	20	3/17/2022 10:39:26 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2203747

Date Reported: 4/14/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-15 2.0'

Project: Avalanche Journal Battery

Collection Date: 3/2/2022 11:10:00 AM

Lab ID: 2203747-004

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/18/2022 3:14:05 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/18/2022 3:14:05 AM
Surr: DNOP	81.6	51.1-141		%Rec	1	3/18/2022 3:14:05 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/16/2022 10:12:00 AM
Surr: BFB	108	70-130		%Rec	1	3/16/2022 10:12:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.023		mg/Kg	1	3/16/2022 10:12:00 AM
Toluene	ND	0.046		mg/Kg	1	3/16/2022 10:12:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	3/16/2022 10:12:00 AM
Xylenes, Total	ND	0.093		mg/Kg	1	3/16/2022 10:12:00 AM
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	3/16/2022 10:12:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	840	60		mg/Kg	20	3/17/2022 10:51:51 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2203747

Date Reported: 4/14/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-18 4.0'

Project: Avalanche Journal Battery

Collection Date: 3/3/2022 10:50:00 AM

Lab ID: 2203747-008

Matrix: SOIL

Received Date: 3/15/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/18/2022 3:24:24 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/18/2022 3:24:24 AM
Surr: DNOP	85.4	51.1-141		%Rec	1	3/18/2022 3:24:24 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/16/2022 10:32:00 AM
Surr: BFB	110	70-130		%Rec	1	3/16/2022 10:32:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	3/16/2022 10:32:00 AM
Toluene	ND	0.050		mg/Kg	1	3/16/2022 10:32:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	3/16/2022 10:32:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	3/16/2022 10:32:00 AM
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	3/16/2022 10:32:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	4000	150		mg/Kg	50	3/18/2022 5:08:31 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203747

14-Apr-22

Client: Vertex Resources Services, Inc.  
Project: Avalanche Journal Battery

Sample ID: <b>MB-66250</b>	SampType: <b>mblk</b>			TestCode: <b>EPA Method 300.0: Anions</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66250</b>			RunNo: <b>86570</b>						
Prep Date: <b>3/17/2022</b>	Analysis Date: <b>3/17/2022</b>			SeqNo: <b>3055565</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-66250</b>	SampType: <b>lcs</b>			TestCode: <b>EPA Method 300.0: Anions</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66250</b>			RunNo: <b>86570</b>						
Prep Date: <b>3/17/2022</b>	Analysis Date: <b>3/17/2022</b>			SeqNo: <b>3055566</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.5	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 Quantitative 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

Page 5 of 8

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

WO#: 2203747

14-Apr-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanche Journal Battery

Sample ID: <b>LCS-66212</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>66212</b>		RunNo: <b>86542</b>							
Prep Date: <b>3/16/2022</b>	Analysis Date: <b>3/17/2022</b>		SeqNo: <b>3055281</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.5	68.9	135			
Surr: DNOP	3.9		5.000		77.5	51.1	141			

Sample ID: <b>MB-66212</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>66212</b>		RunNo: <b>86542</b>							
Prep Date: <b>3/16/2022</b>	Analysis Date: <b>3/17/2022</b>		SeqNo: <b>3055285</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		96.8	51.1	141			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2203747

14-Apr-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanche Journal Battery

Sample ID: <b>mb-66198</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66198</b>	RunNo: <b>86499</b>								
Prep Date: <b>3/15/2022</b>	Analysis Date: <b>3/16/2022</b>	SeqNo: <b>3052369</b> Units: <b>mg/Kg</b>								
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		107	70	130			

Sample ID: <b>lcs-66198</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66198</b>	RunNo: <b>86499</b>								
Prep Date: <b>3/15/2022</b>	Analysis Date: <b>3/16/2022</b>	SeqNo: <b>3052374</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	120	78.6	131			
Surr: BFB	2300		1000		235	70	130			S

Sample ID: <b>2203747-001ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH22-12 4.0'</b>	Batch ID: <b>66198</b>	RunNo: <b>86499</b>								
Prep Date: <b>3/15/2022</b>	Analysis Date: <b>3/16/2022</b>	SeqNo: <b>3053459</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	35	4.7	23.30	0	149	70	130			S
Surr: BFB	2500		932.0		271	70	130			S

Sample ID: <b>2203747-001amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH22-12 4.0'</b>	Batch ID: <b>66198</b>	RunNo: <b>86499</b>								
Prep Date: <b>3/15/2022</b>	Analysis Date: <b>3/16/2022</b>	SeqNo: <b>3053460</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	33	4.6	23.15	0	143	70	130	4.89	20	S
Surr: BFB	2400		925.9		262	70	130	0	0	S

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2203747

14-Apr-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanche Journal Battery

Sample ID: <b>ics-66198</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>66198</b>		RunNo: <b>86499</b>							
Prep Date: <b>3/15/2022</b>	Analysis Date: <b>3/16/2022</b>		SeqNo: <b>3052378</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.9	80	120			
Toluene	0.99	0.050	1.000	0	98.8	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.4	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.3	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.4	70	130			

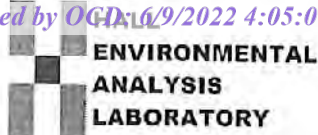
Sample ID: <b>mb-66198</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>66198</b>		RunNo: <b>86499</b>							
Prep Date: <b>3/15/2022</b>	Analysis Date: <b>3/16/2022</b>		SeqNo: <b>3052379</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	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		91.0	70	130			

Sample ID: <b>2203747-003ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>BH22-14 4.0'</b>	Batch ID: <b>66198</b>		RunNo: <b>86499</b>							
Prep Date: <b>3/15/2022</b>	Analysis Date: <b>3/16/2022</b>		SeqNo: <b>3053497</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9756	0	114	68.8	120			
Toluene	1.2	0.049	0.9756	0	119	73.6	124			
Ethylbenzene	1.2	0.049	0.9756	0	121	72.7	129			
Xylenes, Total	3.6	0.098	2.927	0	122	75.7	126			
Surr: 4-Bromofluorobenzene	0.88		0.9756		90.3	70	130			

Sample ID: <b>2203747-003amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>BH22-14 4.0'</b>	Batch ID: <b>66198</b>		RunNo: <b>86499</b>							
Prep Date: <b>3/15/2022</b>	Analysis Date: <b>3/16/2022</b>		SeqNo: <b>3053498</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9588	0	115	68.8	120	0.810	20	
Toluene	1.1	0.048	0.9588	0	119	73.6	124	1.12	20	
Ethylbenzene	1.2	0.048	0.9588	0	122	72.7	129	1.28	20	
Xylenes, Total	3.5	0.096	2.876	0	122	75.7	126	1.62	20	
Surr: 4-Bromofluorobenzene	0.87		0.9588		91.0	70	130	0	0	

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



## Sample Log-In Check List

Client Name: Vertex Resources  
Services, Inc.

Work Order Number: 2203747

RcptNo: 1

Received By: Tracy Casarrubias 3/15/2022 7:30:00 AM

Completed By: Sean Livingston 3/15/2022 8:38:12 AM

Reviewed By: *APG 3/15/22*

*Seal Log*

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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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: *Cue 3/15/22*

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.1	Good				



## Chain-of-Custody Record

Client:

Vertex

Mailing Address:

on file

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)

Accreditation:

☐ Az Compliance☐ NELAC☐ Other☐ EDD (Type)

Project Manager:

Mike Moffett

Sampler:

ATT/MB

On Ice:

☐ Yes ☐ No

# of Coolers:

1

Cooler Temp (including DFI): 0.1 - 0.1 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
3-2-22	0950	Soil	BH22-12	4.0'	1CE	2203747
3-2-22	1120		BH22-13	4.0'		001
3-2-22	1050		BH22-14	4.0'		002
3-2-22	1110		BH22-15	4.0'		003
3-2-22	1120		BH22-15	4.0'		004
3-2-22	1150		BH22-16	4.0'		005
3-3-22	1020		BH22-17	4.0'		006
3-3-22	1050		BH22-18	4.0'		007
3-3-22	1130		BH22-20	4.0'		008
3-4-22	0920		BH22-19	4.0'		009
3-4-22	0950		BH22-21	4.0'		010
3-4-22	1020		BH22-22	4.0'		011

Relinquished by:

Received by:

Date

Time

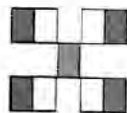
Relinquished by:

Received by:

Date

Time

Turn-Around Time:  
☐ Standard ☐ Rush  
 Project Name:  
 Avalanche Journal Battery  
 Project #:  
 22E-00347



# HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	(C), F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
BTEX / MTBE / TMB's (8021)								

Remarks:

Remove - 1-3-4-8 from field of 3/15

Hold All!

Mike Moffett will call Tuesday afternoon



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

March 21, 2022

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Avalanche Journal Battery

OrderNo.: 2203507

Dear Michael Moffitt:

Hall Environmental Analysis Laboratory received 9 sample(s) on 3/9/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2203507

Date Reported: 3/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-19 0.0'

Project: Avalanche Journal Battery

Collection Date: 3/4/2022 9:00:00 AM

Lab ID: 2203507-001

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/11/2022 4:42:24 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/11/2022 4:42:24 PM
Surr: DNOP	89.2	51.1-141		%Rec	1	3/11/2022 4:42:24 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/12/2022 4:20:00 AM
Surr: BFB	101	70-130		%Rec	1	3/12/2022 4:20:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/12/2022 4:20:00 AM
Toluene	ND	0.046		mg/Kg	1	3/12/2022 4:20:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	3/12/2022 4:20:00 AM
Xylenes, Total	ND	0.092		mg/Kg	1	3/12/2022 4:20:00 AM
Surr: 4-Bromofluorobenzene	88.6	70-130		%Rec	1	3/12/2022 4:20:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: LRN
Chloride	ND	60		mg/Kg	20	3/15/2022 7:13:19 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2203507

Date Reported: 3/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-19 2.0'

Project: Avalanche Journal Battery

Collection Date: 3/4/2022 9:10:00 AM

Lab ID: 2203507-002

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/11/2022 5:03:35 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/11/2022 5:03:35 PM
Surr: DNOP	92.4	51.1-141		%Rec	1	3/11/2022 5:03:35 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/12/2022 4:40:00 AM
Surr: BFB	102	70-130		%Rec	1	3/12/2022 4:40:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/12/2022 4:40:00 AM
Toluene	ND	0.046		mg/Kg	1	3/12/2022 4:40:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	3/12/2022 4:40:00 AM
Xylenes, Total	ND	0.093		mg/Kg	1	3/12/2022 4:40:00 AM
Surr: 4-Bromofluorobenzene	88.9	70-130		%Rec	1	3/12/2022 4:40:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: LRN
Chloride	ND	60		mg/Kg	20	3/15/2022 7:25:44 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2203507

Date Reported: 3/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-21 0.0'

Project: Avalanche Journal Battery

Collection Date: 3/4/2022 9:30:00 AM

Lab ID: 2203507-003

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/11/2022 5:14:12 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2022 5:14:12 PM
Surr: DNOP	110	51.1-141		%Rec	1	3/11/2022 5:14:12 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/12/2022 4:59:00 AM
Surr: BFB	98.8	70-130		%Rec	1	3/12/2022 4:59:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/12/2022 4:59:00 AM
Toluene	ND	0.049		mg/Kg	1	3/12/2022 4:59:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/12/2022 4:59:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	3/12/2022 4:59:00 AM
Surr: 4-Bromofluorobenzene	88.2	70-130		%Rec	1	3/12/2022 4:59:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: LRN
Chloride	ND	60		mg/Kg	20	3/15/2022 8:02:59 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		



## Analytical Report

Lab Order 2203507

Date Reported: 3/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-21 2.0'

Project: Avalanche Journal Battery

Collection Date: 3/4/2022 9:40:00 AM

Lab ID: 2203507-004

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/11/2022 5:24:48 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/11/2022 5:24:48 PM
Surr: DNOP	95.5	51.1-141		%Rec	1	3/11/2022 5:24:48 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/12/2022 5:19:00 AM
Surr: BFB	107	70-130		%Rec	1	3/12/2022 5:19:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/12/2022 5:19:00 AM
Toluene	ND	0.046		mg/Kg	1	3/12/2022 5:19:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	3/12/2022 5:19:00 AM
Xylenes, Total	ND	0.092		mg/Kg	1	3/12/2022 5:19:00 AM
Surr: 4-Bromofluorobenzene	88.6	70-130		%Rec	1	3/12/2022 5:19:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: LRN
Chloride	540	60		mg/Kg	20	3/15/2022 8:15:23 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2203507

Date Reported: 3/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-22 0.0'

Project: Avalanche Journal Battery

Collection Date: 3/4/2022 10:00:00 AM

Lab ID: 2203507-005

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: JME
Diesel Range Organics (DRO)	670	96		mg/Kg	10	3/11/2022 5:35:21 PM
Motor Oil Range Organics (MRO)	1900	480		mg/Kg	10	3/11/2022 5:35:21 PM
Surr: DNOP	0	51.1-141	S	%Rec	10	3/11/2022 5:35:21 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/12/2022 5:38:00 AM
Surr: BFB	98.7	70-130		%Rec	1	3/12/2022 5:38:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/12/2022 5:38:00 AM
Toluene	ND	0.047		mg/Kg	1	3/12/2022 5:38:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	3/12/2022 5:38:00 AM
Xylenes, Total	ND	0.094		mg/Kg	1	3/12/2022 5:38:00 AM
Surr: 4-Bromofluorobenzene	84.5	70-130		%Rec	1	3/12/2022 5:38:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: LRN
Chloride	150	60		mg/Kg	20	3/15/2022 9:17:27 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2203507

Date Reported: 3/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-22 2.0'

Project: Avalanche Journal Battery

Collection Date: 3/4/2022 10:10:00 AM

Lab ID: 2203507-006

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/11/2022 5:56:24 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/11/2022 5:56:24 PM
Surr: DNOP	101	51.1-141		%Rec	1	3/11/2022 5:56:24 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/12/2022 5:58:00 AM
Surr: BFB	103	70-130		%Rec	1	3/12/2022 5:58:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/12/2022 5:58:00 AM
Toluene	ND	0.048		mg/Kg	1	3/12/2022 5:58:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	3/12/2022 5:58:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	3/12/2022 5:58:00 AM
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	3/12/2022 5:58:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: LRN
Chloride	520	60		mg/Kg	20	3/15/2022 9:29:52 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2203507

Date Reported: 3/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-23 0.0'

Project: Avalanche Journal Battery

Collection Date: 3/4/2022 10:30:00 AM

Lab ID: 2203507-007

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: JME
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/11/2022 6:06:59 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/11/2022 6:06:59 PM
Surr: DNOP	105	51.1-141		%Rec	1	3/11/2022 6:06:59 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/11/2022 3:32:00 PM
Surr: BFB	104	70-130		%Rec	1	3/11/2022 3:32:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/11/2022 3:32:00 PM
Toluene	ND	0.047		mg/Kg	1	3/11/2022 3:32:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/11/2022 3:32:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	3/11/2022 3:32:00 PM
Surr: 4-Bromofluorobenzene	88.7	70-130		%Rec	1	3/11/2022 3:32:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: LRN
Chloride	ND	60		mg/Kg	20	3/15/2022 9:42:17 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2203507

Date Reported: 3/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-23 2.0'

Project: Avalanche Journal Battery

Collection Date: 3/4/2022 10:40:00 AM

Lab ID: 2203507-008

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/11/2022 6:17:33 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/11/2022 6:17:33 PM
Surr: DNOP	90.3	51.1-141		%Rec	1	3/11/2022 6:17:33 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/11/2022 4:31:00 PM
Surr: BFB	101	70-130		%Rec	1	3/11/2022 4:31:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/11/2022 4:31:00 PM
Toluene	ND	0.050		mg/Kg	1	3/11/2022 4:31:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/11/2022 4:31:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/11/2022 4:31:00 PM
Surr: 4-Bromofluorobenzene	85.9	70-130		%Rec	1	3/11/2022 4:31:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: LRN
Chloride	ND	60		mg/Kg	20	3/15/2022 9:54:42 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		



## Analytical Report

Lab Order 2203507

Date Reported: 3/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-23 4.0'

Project: Avalanche Journal Battery

Collection Date: 3/4/2022 10:50:00 AM

Lab ID: 2203507-009

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/11/2022 6:28:05 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/11/2022 6:28:05 PM
Surr: DNOP	88.9	51.1-141		%Rec	1	3/11/2022 6:28:05 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/11/2022 5:30:00 PM
Surr: BFB	108	70-130		%Rec	1	3/11/2022 5:30:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/11/2022 5:30:00 PM
Toluene	ND	0.046		mg/Kg	1	3/11/2022 5:30:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	3/11/2022 5:30:00 PM
Xylenes, Total	ND	0.091		mg/Kg	1	3/11/2022 5:30:00 PM
Surr: 4-Bromofluorobenzene	89.5	70-130		%Rec	1	3/11/2022 5:30:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: LRN
Chloride	ND	60		mg/Kg	20	3/15/2022 10:07:06 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2203507

21-Mar-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanche Journal Battery

Sample ID: <b>MB-66173</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66173</b>	RunNo: <b>86503</b>								
Prep Date: <b>3/15/2022</b>	Analysis Date: <b>3/15/2022</b>	SeqNo: <b>3052468</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-66173</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66173</b>	RunNo: <b>86503</b>								
Prep Date: <b>3/15/2022</b>	Analysis Date: <b>3/15/2022</b>	SeqNo: <b>3052469</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.9	90	110			

Sample ID: <b>MB-66186</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66186</b>	RunNo: <b>86503</b>								
Prep Date: <b>3/15/2022</b>	Analysis Date: <b>3/15/2022</b>	SeqNo: <b>3052498</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-66186</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66186</b>	RunNo: <b>86503</b>								
Prep Date: <b>3/15/2022</b>	Analysis Date: <b>3/15/2022</b>	SeqNo: <b>3052499</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative 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#: 2203507

21-Mar-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanche Journal Battery

Sample ID: <b>LCS-66078</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66078</b>			RunNo: <b>86412</b>						
Prep Date: <b>3/10/2022</b>	Analysis Date: <b>3/11/2022</b>			SeqNo: <b>3048356</b>	Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		101	51.1	141			

Sample ID: <b>2203371-008AMS</b>	SampType: <b>MS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>66078</b>			RunNo: <b>86412</b>						
Prep Date: <b>3/10/2022</b>	Analysis Date: <b>3/11/2022</b>			SeqNo: <b>3048403</b>	Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.4		4.878		110	51.1	141			

Sample ID: <b>2203371-008AMSD</b>	SampType: <b>MSD</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>66078</b>			RunNo: <b>86412</b>						
Prep Date: <b>3/10/2022</b>	Analysis Date: <b>3/11/2022</b>			SeqNo: <b>3048408</b>	Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		4.836		104	51.1	141	0	0	

Sample ID: <b>MB-66080</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66080</b>			RunNo: <b>86415</b>						
Prep Date: <b>3/10/2022</b>	Analysis Date: <b>3/11/2022</b>			SeqNo: <b>3048561</b>	Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	51.1	141			

Sample ID: <b>LCS-66080</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66080</b>			RunNo: <b>86415</b>						
Prep Date: <b>3/10/2022</b>	Analysis Date: <b>3/11/2022</b>			SeqNo: <b>3048563</b>	Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.5	68.9	135			
Surr: DNOP	4.9		5.000		98.7	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 Quantitative 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#: 2203507

21-Mar-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanche Journal Battery

Sample ID: <b>ics-66069</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66069</b>			RunNo: <b>86409</b>						
Prep Date: <b>3/9/2022</b>	Analysis Date: <b>3/11/2022</b>			SeqNo: <b>3048222</b>	Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	118	78.6	131			
Surr: BFB	2300		1000		229	70	130			S

Sample ID: <b>mb-66069</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66069</b>			RunNo: <b>86409</b>						
Prep Date: <b>3/9/2022</b>	Analysis Date: <b>3/11/2022</b>			SeqNo: <b>3048223</b>	Units: <b>mg/Kg</b>					
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		102	70	130			

Sample ID: <b>2203507-007ams</b>	SampType: <b>MS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>BH22-23 0.0'</b>	Batch ID: <b>66069</b>			RunNo: <b>86409</b>						
Prep Date: <b>3/9/2022</b>	Analysis Date: <b>3/11/2022</b>			SeqNo: <b>3049006</b>	Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.8	23.76	0	112	70	130			
Surr: BFB	2300		950.6		237	70	130			S

Sample ID: <b>2203507-007amsd</b>	SampType: <b>MSD</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>BH22-23 0.0'</b>	Batch ID: <b>66069</b>			RunNo: <b>86409</b>						
Prep Date: <b>3/9/2022</b>	Analysis Date: <b>3/11/2022</b>			SeqNo: <b>3049007</b>	Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.8	23.85	0	116	70	130	3.89	20	
Surr: BFB	2200		954.2		228	70	130	0	0	S

Sample ID: <b>ics-66062</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66062</b>			RunNo: <b>86409</b>						
Prep Date: <b>3/9/2022</b>	Analysis Date: <b>3/11/2022</b>			SeqNo: <b>3049016</b>	Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	118	78.6	131			
Surr: BFB	2300		1000		231	70	130			S

Sample ID: <b>mb-66062</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66062</b>			RunNo: <b>86409</b>						
Prep Date: <b>3/9/2022</b>	Analysis Date: <b>3/11/2022</b>			SeqNo: <b>3049017</b>	Units: <b>mg/Kg</b>					
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 Quantitative 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#: 2203507

21-Mar-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanche Journal Battery

Sample ID: <b>mb-66062</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>66062</b>		RunNo: <b>86409</b>							
Prep Date: <b>3/9/2022</b>	Analysis Date: <b>3/11/2022</b>		SeqNo: <b>3049017</b>		Units: <b>mg/Kg</b>					
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		101	70	130			

Sample ID: <b>2203498-018ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>BatchQC</b>	Batch ID: <b>66062</b>		RunNo: <b>86409</b>							
Prep Date: <b>3/9/2022</b>	Analysis Date: <b>3/11/2022</b>		SeqNo: <b>3049019</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.6	23.23	0	112	70	130			
Surr: BFB	2200		929.4		232	70	130			S

Sample ID: <b>2203498-018amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>BatchQC</b>	Batch ID: <b>66062</b>		RunNo: <b>86409</b>							
Prep Date: <b>3/9/2022</b>	Analysis Date: <b>3/11/2022</b>		SeqNo: <b>3049020</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.6	23.17	0	115	70	130	1.88	20	
Surr: BFB	2100		926.8		225	70	130	0	0	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 Quantitative 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#: 2203507

21-Mar-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanche Journal Battery

Sample ID: <b>lcs-66069</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66069</b>			RunNo: <b>86409</b>						
Prep Date: <b>3/9/2022</b>	Analysis Date: <b>3/11/2022</b>			SeqNo: <b>3048229</b>	Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.1	80	120			
Toluene	0.87	0.050	1.000	0	87.2	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.0	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.9	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		89.8	70	130			

Sample ID: <b>mb-66069</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66069</b>			RunNo: <b>86409</b>						
Prep Date: <b>3/9/2022</b>	Analysis Date: <b>3/11/2022</b>			SeqNo: <b>3048230</b>	Units: <b>mg/Kg</b>					
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	0.89		1.000		88.9	70	130			

Sample ID: <b>2203507-008ams</b>	SampType: <b>MS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>BH22-23 2.0'</b>	Batch ID: <b>66069</b>			RunNo: <b>86409</b>						
Prep Date: <b>3/9/2022</b>	Analysis Date: <b>3/11/2022</b>			SeqNo: <b>3049047</b>	Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	0.9980	0	93.5	68.8	120			
Toluene	0.97	0.050	0.9980	0	97.5	73.6	124			
Ethylbenzene	0.99	0.050	0.9980	0	99.7	72.7	129			
Xylenes, Total	3.0	0.10	2.994	0	99.4	75.7	126			
Surr: 4-Bromofluorobenzene	0.89		0.9980		89.6	70	130			

Sample ID: <b>2203507-008amsd</b>	SampType: <b>MSD</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>BH22-23 2.0'</b>	Batch ID: <b>66069</b>			RunNo: <b>86409</b>						
Prep Date: <b>3/9/2022</b>	Analysis Date: <b>3/11/2022</b>			SeqNo: <b>3049048</b>	Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	0.9950	0	92.5	68.8	120	1.36	20	
Toluene	0.97	0.050	0.9950	0	97.2	73.6	124	0.565	20	
Ethylbenzene	0.98	0.050	0.9950	0	98.7	72.7	129	1.29	20	
Xylenes, Total	3.0	0.10	2.985	0	98.8	75.7	126	0.857	20	
Surr: 4-Bromofluorobenzene	0.91		0.9950		91.0	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 Quantitative 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#: 2203507

21-Mar-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanche Journal Battery

Sample ID: <b>lcs-66062</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66062</b>			RunNo: <b>86409</b>						
Prep Date: <b>3/9/2022</b>	Analysis Date: <b>3/11/2022</b>			SeqNo: <b>3049056</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.4	80	120			
Toluene	0.95	0.050	1.000	0	95.0	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.1	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.2	70	130			

Sample ID: <b>mb-66062</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66062</b>			RunNo: <b>86409</b>						
Prep Date: <b>3/9/2022</b>	Analysis Date: <b>3/11/2022</b>			SeqNo: <b>3049057</b>			Units: <b>mg/Kg</b>			
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	0.89		1.000		89.0	70	130			

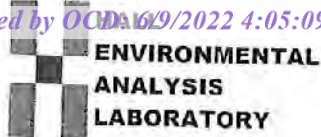
Sample ID: <b>2203498-019ams</b>	SampType: <b>MS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>66062</b>			RunNo: <b>86409</b>						
Prep Date: <b>3/9/2022</b>	Analysis Date: <b>3/11/2022</b>			SeqNo: <b>3049060</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9634	0	90.5	68.8	120			
Toluene	0.90	0.048	0.9634	0	93.5	73.6	124			
Ethylbenzene	0.92	0.048	0.9634	0	95.0	72.7	129			
Xylenes, Total	2.7	0.096	2.890	0	94.9	75.7	126			
Surr: 4-Bromofluorobenzene	0.86		0.9634		89.3	70	130			

Sample ID: <b>2203498-019amsd</b>	SampType: <b>MSD</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>BatchQC</b>	Batch ID: <b>66062</b>			RunNo: <b>86409</b>						
Prep Date: <b>3/9/2022</b>	Analysis Date: <b>3/11/2022</b>			SeqNo: <b>3049061</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.024	0.9699	0	91.4	68.8	120	1.64	20	
Toluene	0.92	0.048	0.9699	0	95.1	73.6	124	2.34	20	
Ethylbenzene	0.94	0.048	0.9699	0	96.6	72.7	129	2.33	20	
Xylenes, Total	2.8	0.097	2.910	0	96.5	75.7	126	2.26	20	
Surr: 4-Bromofluorobenzene	0.85		0.9699		88.1	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 Quantitative 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



## Sample Log-In Check List

Client Name: Vertex Resources  
Services, Inc.

Work Order Number: 2203507

RcptNo: 1

Received By: Sean Livingston 3/9/2022 8:00:00 AM

Completed By: Sean Livingston 3/9/2022 9:05:02 AM

Reviewed By: *One* 3/9/22
*Sean Livingston*  
*Sean Livingston*
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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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:

(&lt;2 or &gt;12 unless noted)

Adjusted?

Checked by: *jn 3/9/22*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:

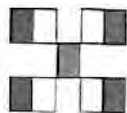
17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.5	Good				
2	2.9	Good				



## Chain-of-Custody Record

Client: <u>Vertex</u>		Turn-Around Time: <u>5-DAY</u>	
Mailing Address:		Project Name: <u>Avalanche Journal</u>	
Phone #: <u>22E-00347</u>		Project #: <u>22E-00347</u>	
email or Fax#:		Project Manager: <u>Mike Moffatt</u>	
QA/QC Package:		Sampler:	
<input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Accreditation: <input type="checkbox"/> Az Compliance <input type="checkbox"/> NELAC <input type="checkbox"/> Other		# of Coolers: <u>2</u>	
<input type="checkbox"/> EDD (Type)		Cooler Temp (including CF): <u>0.5 ± 0.5 (°C)</u>	
Date	Time	Matrix	Sample Name
3-4-22	09:00	Soil	BH22-19 0.0'
	09:10		BH22-19 2.0'
	09:30		BH22-21 0.0'
	09:40		BH22-21 2.0'
	10:00		BH22-22 0.0'
	10:10		BH22-22 2.0'
	10:30		BH22-23 0.0'
	10:40		BH22-23 2.0'
	10:50		BH22-23 4.0'
	per sample		bottle - 12/3/22
Date:	Time:	Relinquished by:	Received by: Via: Date Time
3/4/22	9:00	<u>Alumina</u>	<u>Alumina</u> 3/8/22 10:45
			See container 3/9/22 8:00



# 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<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub> ☐  
 8260 (VOA) ☐  
 8270 (Semi-VOA) ☐  
 Total Coliform (Present/Absent) ☐

Remarks:



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

April 14, 2022

Chase Settle

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Avalanche Journal Battery

OrderNo.: 2203F67

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 7 sample(s) on 3/30/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109



## Analytical Report

Lab Order 2203F67

Date Reported: 4/14/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-24 25.0'

Project: Avalanche Journal Battery

Collection Date: 3/28/2022 11:40:00 AM

Lab ID: 2203F67-001

Matrix: SOIL

Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	3000	150		mg/Kg	50	4/11/2022 3:56:53 PM	66732
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/8/2022 2:45:05 PM	66670
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/8/2022 2:45:05 PM	66670
Surr: DNOP	122	51.1-141		%Rec	1	4/8/2022 2:45:05 PM	66670
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/7/2022 2:47:00 PM	66675
Surr: BFB	96.8	37.7-212		%Rec	1	4/7/2022 2:47:00 PM	66675
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/7/2022 2:47:00 PM	66675
Toluene	ND	0.047		mg/Kg	1	4/7/2022 2:47:00 PM	66675
Ethylbenzene	ND	0.047		mg/Kg	1	4/7/2022 2:47:00 PM	66675
Xylenes, Total	ND	0.095		mg/Kg	1	4/7/2022 2:47:00 PM	66675
Surr: 4-Bromofluorobenzene	82.8	70-130		%Rec	1	4/7/2022 2:47:00 PM	66675

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2203F67

Date Reported: 4/14/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-24 50.0'

Project: Avalanche Journal Battery

Collection Date: 3/28/2022 12:40:00 PM

Lab ID: 2203F67-003

Matrix: SOIL

Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	590	60		mg/Kg	20	4/1/2022 4:52:04 AM	66550
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/31/2022 11:22:46 AM	66507
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/31/2022 11:22:46 AM	66507
Surr: DNOP	103	51.1-141		%Rec	1	3/31/2022 11:22:46 AM	66507
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/31/2022 2:50:40 PM	66501
Surr: BFB	97.1	37.7-212		%Rec	1	3/31/2022 2:50:40 PM	66501
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/31/2022 2:50:40 PM	66501
Toluene	ND	0.049		mg/Kg	1	3/31/2022 2:50:40 PM	66501
Ethylbenzene	ND	0.049		mg/Kg	1	3/31/2022 2:50:40 PM	66501
Xylenes, Total	ND	0.097		mg/Kg	1	3/31/2022 2:50:40 PM	66501
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	3/31/2022 2:50:40 PM	66501

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2203F67

Date Reported: 4/14/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-25 25.0'

Project: Avalanche Journal Battery

Collection Date: 3/28/2022 2:00:00 PM

Lab ID: 2203F67-005

Matrix: SOIL

Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	1600	60		mg/Kg	20	4/1/2022 5:04:29 AM	66550
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/31/2022 11:33:16 AM	66507
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/31/2022 11:33:16 AM	66507
Surr: DNOP	86.8	51.1-141		%Rec	1	3/31/2022 11:33:16 AM	66507
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/31/2022 4:01:15 PM	66501
Surr: BFB	98.9	37.7-212		%Rec	1	3/31/2022 4:01:15 PM	66501
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	3/31/2022 4:01:15 PM	66501
Toluene	ND	0.050		mg/Kg	1	3/31/2022 4:01:15 PM	66501
Ethylbenzene	ND	0.050		mg/Kg	1	3/31/2022 4:01:15 PM	66501
Xylenes, Total	ND	0.10		mg/Kg	1	3/31/2022 4:01:15 PM	66501
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	3/31/2022 4:01:15 PM	66501

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2203F67

Date Reported: 4/14/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BH22-25 35.0'

Project: Avalanche Journal Battery

Collection Date: 3/28/2022 2:20:00 PM

Lab ID: 2203F67-006

Matrix: SOIL

Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	440	60		mg/Kg	20	4/1/2022 5:16:53 AM	66550
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/31/2022 11:43:48 AM	66507
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/31/2022 11:43:48 AM	66507
Surr: DNOP	84.9	51.1-141		%Rec	1	3/31/2022 11:43:48 AM	66507
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/31/2022 4:24:46 PM	66501
Surr: BFB	103	37.7-212		%Rec	1	3/31/2022 4:24:46 PM	66501
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	3/31/2022 4:24:46 PM	66501
Toluene	ND	0.048		mg/Kg	1	3/31/2022 4:24:46 PM	66501
Ethylbenzene	ND	0.048		mg/Kg	1	3/31/2022 4:24:46 PM	66501
Xylenes, Total	ND	0.096		mg/Kg	1	3/31/2022 4:24:46 PM	66501
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/31/2022 4:24:46 PM	66501

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2203F67

14-Apr-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>MB-66550</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66550</b>	RunNo: <b>86885</b>								
Prep Date: <b>3/31/2022</b>	Analysis Date: <b>4/1/2022</b>	SeqNo: <b>3070608</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-66550</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66550</b>	RunNo: <b>86885</b>								
Prep Date: <b>3/31/2022</b>	Analysis Date: <b>4/1/2022</b>	SeqNo: <b>3070609</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.9	90	110			

Sample ID: <b>MB-66732</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66732</b>	RunNo: <b>87136</b>								
Prep Date: <b>4/8/2022</b>	Analysis Date: <b>4/8/2022</b>	SeqNo: <b>3080959</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-66732</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66732</b>	RunNo: <b>87136</b>								
Prep Date: <b>4/8/2022</b>	Analysis Date: <b>4/8/2022</b>	SeqNo: <b>3080960</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.1	90	110			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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

WO#: 2203F67

14-Apr-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>LCS-66507</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>66507</b>		RunNo: <b>86887</b>							
Prep Date: <b>3/30/2022</b>	Analysis Date: <b>3/31/2022</b>		SeqNo: <b>3069715</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.1	68.9	135			
Surr: DNOP	3.8		5.000		75.1	51.1	141			

Sample ID: <b>MB-66507</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>66507</b>		RunNo: <b>86887</b>							
Prep Date: <b>3/30/2022</b>	Analysis Date: <b>3/31/2022</b>		SeqNo: <b>3069718</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		88.8	51.1	141			

Sample ID: <b>LCS-66670</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>66670</b>		RunNo: <b>87064</b>							
Prep Date: <b>4/6/2022</b>	Analysis Date: <b>4/7/2022</b>		SeqNo: <b>3078634</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.0	68.9	135			
Surr: DNOP	5.1		5.000		101	51.1	141			

Sample ID: <b>MB-66670</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>66670</b>		RunNo: <b>87064</b>							
Prep Date: <b>4/6/2022</b>	Analysis Date: <b>4/7/2022</b>		SeqNo: <b>3078637</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		87.2	51.1	141			

Sample ID: <b>MB-66715</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>66715</b>		RunNo: <b>87125</b>							
Prep Date: <b>4/7/2022</b>	Analysis Date: <b>4/8/2022</b>		SeqNo: <b>3080356</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		110	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 Quantitative 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#: 2203F67

14-Apr-22

Client: EOG

Project: Avalanche Journal Battery

Sample ID: <b>LCS-66715</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66715</b>	RunNo: <b>87125</b>								
Prep Date: <b>4/7/2022</b>	Analysis Date: <b>4/8/2022</b>	SeqNo: <b>3080358</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		93.1	51.1	141			

### 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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2203F67

14-Apr-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>ics-66501</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>66501</b>		RunNo: <b>86898</b>							
Prep Date: <b>3/30/2022</b>	Analysis Date: <b>3/31/2022</b>		SeqNo: <b>3070030</b>		Units: <b>mg/Kg</b>					
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		212	37.7	212			

Sample ID: <b>mb-66501</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>66501</b>		RunNo: <b>86898</b>							
Prep Date: <b>3/30/2022</b>	Analysis Date: <b>3/31/2022</b>		SeqNo: <b>3070031</b>		Units: <b>mg/Kg</b>					
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		97.1	37.7	212			

Sample ID: <b>ics-66675</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>66675</b>		RunNo: <b>87084</b>							
Prep Date: <b>4/6/2022</b>	Analysis Date: <b>4/7/2022</b>		SeqNo: <b>3078370</b>		Units: <b>mg/Kg</b>					
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	2200		1000		219	37.7	212			S

Sample ID: <b>mb-66675</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>66675</b>		RunNo: <b>87084</b>							
Prep Date: <b>4/6/2022</b>	Analysis Date: <b>4/7/2022</b>		SeqNo: <b>3078371</b>		Units: <b>mg/Kg</b>					
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		109	37.7	212			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2203F67

14-Apr-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>LCS-66501</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66501</b>			RunNo: <b>86898</b>						
Prep Date: <b>3/30/2022</b>	Analysis Date: <b>3/31/2022</b>			SeqNo: <b>3070054</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.4	80	120			
Toluene	0.90	0.050	1.000	0	90.4	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: <b>mb-66501</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66501</b>			RunNo: <b>86898</b>						
Prep Date: <b>3/30/2022</b>	Analysis Date: <b>3/31/2022</b>			SeqNo: <b>3070055</b>			Units: <b>mg/Kg</b>			
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		97.0	70	130			

Sample ID: <b>lcs-66675</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66675</b>			RunNo: <b>87084</b>						
Prep Date: <b>4/6/2022</b>	Analysis Date: <b>4/7/2022</b>			SeqNo: <b>3078399</b>			Units: <b>mg/Kg</b>			
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	0.88	0.050	1.000	0	88.1	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	88.9	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.4	70	130			

Sample ID: <b>mb-66675</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66675</b>			RunNo: <b>87084</b>						
Prep Date: <b>4/6/2022</b>	Analysis Date: <b>4/7/2022</b>			SeqNo: <b>3078400</b>			Units: <b>mg/Kg</b>			
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		91.2	70	130			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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

## Sample Log-In Check List

Client Name: EOG

Work Order Number: 2203F67

RcptNo: 1

Received By: Juan Rojas

3/30/2022 9:15:00 AM

Completed By: Sean Livingston

3/30/2022 9:40:24 AM

Reviewed By: TME

3/30/22

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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 3/30/22

### 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	0.3	Good				







Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

April 21, 2022

Chase Settle

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Avalanche Journal Battery

OrderNo.: 2204537

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 20 sample(s) on 4/13/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2204537

Date Reported: 4/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WS22-01 4.0'

Project: Avalanche Journal Battery

Collection Date: 4/8/2022 3:10:00 PM

Lab ID: 2204537-001

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/14/2022 11:58:29 AM	66846
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/14/2022 9:11:42 PM	66822
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/14/2022 9:11:42 PM	66822
Surr: DNOP	99.2	51.1-141		%Rec	1	4/14/2022 9:11:42 PM	66822
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/14/2022 12:43:00 PM	66814
Surr: BFB	97.4	37.7-212		%Rec	1	4/14/2022 12:43:00 PM	66814
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/14/2022 12:43:00 PM	66814
Toluene	ND	0.048		mg/Kg	1	4/14/2022 12:43:00 PM	66814
Ethylbenzene	ND	0.048		mg/Kg	1	4/14/2022 12:43:00 PM	66814
Xylenes, Total	ND	0.096		mg/Kg	1	4/14/2022 12:43:00 PM	66814
Surr: 4-Bromofluorobenzene	79.9	70-130		%Rec	1	4/14/2022 12:43:00 PM	66814

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204537

Date Reported: 4/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WS22-02 4.0'

Project: Avalanche Journal Battery

Collection Date: 4/8/2022 3:15:00 PM

Lab ID: 2204537-002

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	230	61		mg/Kg	20	4/14/2022 12:10:53 PM	66846
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/14/2022 10:24:17 PM	66822
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/14/2022 10:24:17 PM	66822
Surr: DNOP	92.4	51.1-141		%Rec	1	4/14/2022 10:24:17 PM	66822
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/14/2022 1:42:00 PM	66814
Surr: BFB	93.6	37.7-212		%Rec	1	4/14/2022 1:42:00 PM	66814
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/14/2022 1:42:00 PM	66814
Toluene	ND	0.047		mg/Kg	1	4/14/2022 1:42:00 PM	66814
Ethylbenzene	ND	0.047		mg/Kg	1	4/14/2022 1:42:00 PM	66814
Xylenes, Total	ND	0.093		mg/Kg	1	4/14/2022 1:42:00 PM	66814
Surr: 4-Bromofluorobenzene	79.2	70-130		%Rec	1	4/14/2022 1:42:00 PM	66814

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204537

Date Reported: 4/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WS22-03 4.0'

Project: Avalanche Journal Battery

Collection Date: 4/8/2022 3:20:00 PM

Lab ID: 2204537-003

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/14/2022 12:23:17 PM	66846
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/14/2022 10:48:24 PM	66822
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/14/2022 10:48:24 PM	66822
Surr: DNOP	85.3	51.1-141		%Rec	1	4/14/2022 10:48:24 PM	66822
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/14/2022 2:41:00 PM	66814
Surr: BFB	99.1	37.7-212		%Rec	1	4/14/2022 2:41:00 PM	66814
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/14/2022 2:41:00 PM	66814
Toluene	ND	0.050		mg/Kg	1	4/14/2022 2:41:00 PM	66814
Ethylbenzene	ND	0.050		mg/Kg	1	4/14/2022 2:41:00 PM	66814
Xylenes, Total	ND	0.099		mg/Kg	1	4/14/2022 2:41:00 PM	66814
Surr: 4-Bromofluorobenzene	81.5	70-130		%Rec	1	4/14/2022 2:41:00 PM	66814

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204537

Date Reported: 4/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WS22-04 4.0'

Project: Avalanche Journal Battery

Collection Date: 4/8/2022 3:25:00 PM

Lab ID: 2204537-004

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/14/2022 12:35:42 PM	66846
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/14/2022 11:12:27 PM	66822
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/14/2022 11:12:27 PM	66822
Surr: DNOP	92.5	51.1-141		%Rec	1	4/14/2022 11:12:27 PM	66822
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/14/2022 3:01:00 PM	66814
Surr: BFB	103	37.7-212		%Rec	1	4/14/2022 3:01:00 PM	66814
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/14/2022 3:01:00 PM	66814
Toluene	ND	0.048		mg/Kg	1	4/14/2022 3:01:00 PM	66814
Ethylbenzene	ND	0.048		mg/Kg	1	4/14/2022 3:01:00 PM	66814
Xylenes, Total	ND	0.097		mg/Kg	1	4/14/2022 3:01:00 PM	66814
Surr: 4-Bromofluorobenzene	81.9	70-130		%Rec	1	4/14/2022 3:01:00 PM	66814

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204537

Date Reported: 4/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WS22-05 4.0'

Project: Avalanche Journal Battery

Collection Date: 4/8/2022 3:30:00 PM

Lab ID: 2204537-005

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	79	60		mg/Kg	20	4/14/2022 12:48:06 PM	66846
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/14/2022 11:36:27 PM	66822
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/14/2022 11:36:27 PM	66822
Surr: DNOP	84.7	51.1-141		%Rec	1	4/14/2022 11:36:27 PM	66822
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/14/2022 3:20:00 PM	66814
Surr: BFB	97.8	37.7-212		%Rec	1	4/14/2022 3:20:00 PM	66814
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/14/2022 3:20:00 PM	66814
Toluene	ND	0.049		mg/Kg	1	4/14/2022 3:20:00 PM	66814
Ethylbenzene	ND	0.049		mg/Kg	1	4/14/2022 3:20:00 PM	66814
Xylenes, Total	ND	0.097		mg/Kg	1	4/14/2022 3:20:00 PM	66814
Surr: 4-Bromofluorobenzene	80.6	70-130		%Rec	1	4/14/2022 3:20:00 PM	66814

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204537

Date Reported: 4/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WS22-07 4.0'

Project: Avalanche Journal Battery

Collection Date: 4/8/2022 3:35:00 PM

Lab ID: 2204537-006

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/14/2022 1:50:08 PM	66846
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/15/2022 12:00:27 AM	66822
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/15/2022 12:00:27 AM	66822
Surr: DNOP	106	51.1-141		%Rec	1	4/15/2022 12:00:27 AM	66822
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/14/2022 3:40:00 PM	66814
Surr: BFB	99.7	37.7-212		%Rec	1	4/14/2022 3:40:00 PM	66814
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/14/2022 3:40:00 PM	66814
Toluene	ND	0.050		mg/Kg	1	4/14/2022 3:40:00 PM	66814
Ethylbenzene	ND	0.050		mg/Kg	1	4/14/2022 3:40:00 PM	66814
Xylenes, Total	ND	0.099		mg/Kg	1	4/14/2022 3:40:00 PM	66814
Surr: 4-Bromofluorobenzene	81.6	70-130		%Rec	1	4/14/2022 3:40:00 PM	66814

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204537

Date Reported: 4/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WS22-08 4.0'

Project: Avalanche Journal Battery

Collection Date: 4/8/2022 3:40:00 PM

Lab ID: 2204537-007

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/14/2022 2:02:32 PM	66846
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/15/2022 12:24:21 AM	66822
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/15/2022 12:24:21 AM	66822
Surr: DNOP	68.6	51.1-141		%Rec	1	4/15/2022 12:24:21 AM	66822
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/14/2022 4:00:00 PM	66814
Surr: BFB	98.3	37.7-212		%Rec	1	4/14/2022 4:00:00 PM	66814
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/14/2022 4:00:00 PM	66814
Toluene	ND	0.047		mg/Kg	1	4/14/2022 4:00:00 PM	66814
Ethylbenzene	ND	0.047		mg/Kg	1	4/14/2022 4:00:00 PM	66814
Xylenes, Total	ND	0.093		mg/Kg	1	4/14/2022 4:00:00 PM	66814
Surr: 4-Bromofluorobenzene	80.8	70-130		%Rec	1	4/14/2022 4:00:00 PM	66814

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204537

Date Reported: 4/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WS22-09 4.0'

Project: Avalanche Journal Battery

Collection Date: 4/8/2022 3:45:00 PM

Lab ID: 2204537-008

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/14/2022 2:14:57 PM	66846
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/15/2022 12:48:16 AM	66822
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/15/2022 12:48:16 AM	66822
Surr: DNOP	108	51.1-141		%Rec	1	4/15/2022 12:48:16 AM	66822
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/14/2022 4:19:00 PM	66814
Surr: BFB	94.2	37.7-212		%Rec	1	4/14/2022 4:19:00 PM	66814
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/14/2022 4:19:00 PM	66814
Toluene	ND	0.049		mg/Kg	1	4/14/2022 4:19:00 PM	66814
Ethylbenzene	ND	0.049		mg/Kg	1	4/14/2022 4:19:00 PM	66814
Xylenes, Total	ND	0.099		mg/Kg	1	4/14/2022 4:19:00 PM	66814
Surr: 4-Bromofluorobenzene	78.2	70-130		%Rec	1	4/14/2022 4:19:00 PM	66814

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204537

Date Reported: 4/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WS22-10 4.0'

Project: Avalanche Journal Battery

Collection Date: 4/8/2022 3:50:00 PM

Lab ID: 2204537-009

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/14/2022 2:27:21 PM	66846
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/15/2022 1:12:09 AM	66822
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/15/2022 1:12:09 AM	66822
Surr: DNOP	90.5	51.1-141		%Rec	1	4/15/2022 1:12:09 AM	66822
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/14/2022 4:39:00 PM	66814
Surr: BFB	95.2	37.7-212		%Rec	1	4/14/2022 4:39:00 PM	66814
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/14/2022 4:39:00 PM	66814
Toluene	ND	0.048		mg/Kg	1	4/14/2022 4:39:00 PM	66814
Ethylbenzene	ND	0.048		mg/Kg	1	4/14/2022 4:39:00 PM	66814
Xylenes, Total	ND	0.096		mg/Kg	1	4/14/2022 4:39:00 PM	66814
Surr: 4-Bromofluorobenzene	79.6	70-130		%Rec	1	4/14/2022 4:39:00 PM	66814

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204537

Date Reported: 4/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WS22-11 4.0'

Project: Avalanche Journal Battery

Collection Date: 4/8/2022 3:55:00 PM

Lab ID: 2204537-010

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/14/2022 3:04:35 PM	66846
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/15/2022 1:36:03 AM	66822
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/15/2022 1:36:03 AM	66822
Surr: DNOP	81.7	51.1-141		%Rec	1	4/15/2022 1:36:03 AM	66822
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/14/2022 5:38:00 PM	66814
Surr: BFB	97.8	37.7-212		%Rec	1	4/14/2022 5:38:00 PM	66814
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/14/2022 5:38:00 PM	66814
Toluene	ND	0.048		mg/Kg	1	4/14/2022 5:38:00 PM	66814
Ethylbenzene	ND	0.048		mg/Kg	1	4/14/2022 5:38:00 PM	66814
Xylenes, Total	ND	0.096		mg/Kg	1	4/14/2022 5:38:00 PM	66814
Surr: 4-Bromofluorobenzene	78.7	70-130		%Rec	1	4/14/2022 5:38:00 PM	66814

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204537

Date Reported: 4/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WS22-12 4.0'

Project: Avalanche Journal Battery

Collection Date: 4/8/2022 4:00:00 PM

Lab ID: 2204537-011

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	68	60		mg/Kg	20	4/14/2022 3:16:59 PM	66846
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/15/2022 1:59:56 AM	66822
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/15/2022 1:59:56 AM	66822
Surr: DNOP	84.4	51.1-141		%Rec	1	4/15/2022 1:59:56 AM	66822
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/14/2022 5:58:00 PM	66814
Surr: BFB	99.6	37.7-212		%Rec	1	4/14/2022 5:58:00 PM	66814
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/14/2022 5:58:00 PM	66814
Toluene	ND	0.047		mg/Kg	1	4/14/2022 5:58:00 PM	66814
Ethylbenzene	ND	0.047		mg/Kg	1	4/14/2022 5:58:00 PM	66814
Xylenes, Total	ND	0.094		mg/Kg	1	4/14/2022 5:58:00 PM	66814
Surr: 4-Bromofluorobenzene	82.6	70-130		%Rec	1	4/14/2022 5:58:00 PM	66814

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2204537

Date Reported: 4/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WS22-13 4.0'

Project: Avalanche Journal Battery

Collection Date: 4/8/2022 4:05:00 PM

Lab ID: 2204537-012

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/14/2022 3:29:24 PM	66846
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/15/2022 2:23:46 AM	66822
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/15/2022 2:23:46 AM	66822
Surr: DNOP	87.8	51.1-141		%Rec	1	4/15/2022 2:23:46 AM	66822
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/14/2022 6:17:00 PM	66814
Surr: BFB	103	37.7-212		%Rec	1	4/14/2022 6:17:00 PM	66814
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/14/2022 6:17:00 PM	66814
Toluene	ND	0.046		mg/Kg	1	4/14/2022 6:17:00 PM	66814
Ethylbenzene	ND	0.046		mg/Kg	1	4/14/2022 6:17:00 PM	66814
Xylenes, Total	ND	0.093		mg/Kg	1	4/14/2022 6:17:00 PM	66814
Surr: 4-Bromofluorobenzene	82.4	70-130		%Rec	1	4/14/2022 6:17:00 PM	66814

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204537

Date Reported: 4/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WS22-14 4.0'

Project: Avalanche Journal Battery

Collection Date: 4/8/2022 4:10:00 PM

Lab ID: 2204537-013

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/14/2022 3:41:49 PM	66846
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/15/2022 2:47:35 AM	66822
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/15/2022 2:47:35 AM	66822
Surr: DNOP	85.3	51.1-141		%Rec	1	4/15/2022 2:47:35 AM	66822
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/14/2022 6:37:00 PM	66814
Surr: BFB	96.6	37.7-212		%Rec	1	4/14/2022 6:37:00 PM	66814
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/14/2022 6:37:00 PM	66814
Toluene	ND	0.049		mg/Kg	1	4/14/2022 6:37:00 PM	66814
Ethylbenzene	ND	0.049		mg/Kg	1	4/14/2022 6:37:00 PM	66814
Xylenes, Total	ND	0.097		mg/Kg	1	4/14/2022 6:37:00 PM	66814
Surr: 4-Bromofluorobenzene	80.8	70-130		%Rec	1	4/14/2022 6:37:00 PM	66814

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204537

Date Reported: 4/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WS22-15 4.0'

Project: Avalanche Journal Battery

Collection Date: 4/8/2022 4:15:00 PM

Lab ID: 2204537-014

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/14/2022 4:19:02 PM	66846
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/15/2022 3:11:23 AM	66822
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/15/2022 3:11:23 AM	66822
Surr: DNOP	93.0	51.1-141		%Rec	1	4/15/2022 3:11:23 AM	66822
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/14/2022 6:57:00 PM	66814
Surr: BFB	100	37.7-212		%Rec	1	4/14/2022 6:57:00 PM	66814
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/14/2022 6:57:00 PM	66814
Toluene	ND	0.046		mg/Kg	1	4/14/2022 6:57:00 PM	66814
Ethylbenzene	ND	0.046		mg/Kg	1	4/14/2022 6:57:00 PM	66814
Xylenes, Total	ND	0.093		mg/Kg	1	4/14/2022 6:57:00 PM	66814
Surr: 4-Bromofluorobenzene	82.2	70-130		%Rec	1	4/14/2022 6:57:00 PM	66814

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204537

Date Reported: 4/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WS22-16 4.0'

Project: Avalanche Journal Battery

Collection Date: 4/8/2022 4:20:00 PM

Lab ID: 2204537-015

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/14/2022 4:31:27 PM	66846
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/15/2022 3:35:07 AM	66822
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/15/2022 3:35:07 AM	66822
Surr: DNOP	82.1	51.1-141		%Rec	1	4/15/2022 3:35:07 AM	66822
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/14/2022 7:16:00 PM	66814
Surr: BFB	96.4	37.7-212		%Rec	1	4/14/2022 7:16:00 PM	66814
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/14/2022 7:16:00 PM	66814
Toluene	ND	0.049		mg/Kg	1	4/14/2022 7:16:00 PM	66814
Ethylbenzene	ND	0.049		mg/Kg	1	4/14/2022 7:16:00 PM	66814
Xylenes, Total	ND	0.099		mg/Kg	1	4/14/2022 7:16:00 PM	66814
Surr: 4-Bromofluorobenzene	79.2	70-130		%Rec	1	4/14/2022 7:16:00 PM	66814

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204537

Date Reported: 4/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WS22-19 4.0'

Project: Avalanche Journal Battery

Collection Date: 4/8/2022 4:25:00 PM

Lab ID: 2204537-016

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	150	60		mg/Kg	20	4/14/2022 4:43:51 PM	66846
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/15/2022 3:58:53 AM	66822
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/15/2022 3:58:53 AM	66822
Surr: DNOP	87.6	51.1-141		%Rec	1	4/15/2022 3:58:53 AM	66822
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/14/2022 7:36:00 PM	66814
Surr: BFB	96.8	37.7-212		%Rec	1	4/14/2022 7:36:00 PM	66814
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/14/2022 7:36:00 PM	66814
Toluene	ND	0.046		mg/Kg	1	4/14/2022 7:36:00 PM	66814
Ethylbenzene	ND	0.046		mg/Kg	1	4/14/2022 7:36:00 PM	66814
Xylenes, Total	ND	0.092		mg/Kg	1	4/14/2022 7:36:00 PM	66814
Surr: 4-Bromofluorobenzene	79.4	70-130		%Rec	1	4/14/2022 7:36:00 PM	66814

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204537

Date Reported: 4/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WS22-20 4.0'

Project: Avalanche Journal Battery

Collection Date: 4/8/2022 4:30:00 PM

Lab ID: 2204537-017

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/14/2022 4:56:15 PM	66846
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/15/2022 4:22:35 AM	66822
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/15/2022 4:22:35 AM	66822
Surr: DNOP	99.2	51.1-141		%Rec	1	4/15/2022 4:22:35 AM	66822
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/14/2022 7:56:00 PM	66814
Surr: BFB	101	37.7-212		%Rec	1	4/14/2022 7:56:00 PM	66814
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/14/2022 7:56:00 PM	66814
Toluene	ND	0.049		mg/Kg	1	4/14/2022 7:56:00 PM	66814
Ethylbenzene	ND	0.049		mg/Kg	1	4/14/2022 7:56:00 PM	66814
Xylenes, Total	ND	0.098		mg/Kg	1	4/14/2022 7:56:00 PM	66814
Surr: 4-Bromofluorobenzene	81.3	70-130		%Rec	1	4/14/2022 7:56:00 PM	66814

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204537

Date Reported: 4/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WS22-21 4.0'

Project: Avalanche Journal Battery

Collection Date: 4/8/2022 4:35:00 PM

Lab ID: 2204537-018

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/14/2022 5:08:40 PM	66846
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/15/2022 4:46:14 AM	66822
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/15/2022 4:46:14 AM	66822
Surr: DNOP	84.3	51.1-141		%Rec	1	4/15/2022 4:46:14 AM	66822
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/14/2022 8:15:00 PM	66814
Surr: BFB	99.7	37.7-212		%Rec	1	4/14/2022 8:15:00 PM	66814
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/14/2022 8:15:00 PM	66814
Toluene	ND	0.048		mg/Kg	1	4/14/2022 8:15:00 PM	66814
Ethylbenzene	ND	0.048		mg/Kg	1	4/14/2022 8:15:00 PM	66814
Xylenes, Total	ND	0.097		mg/Kg	1	4/14/2022 8:15:00 PM	66814
Surr: 4-Bromofluorobenzene	79.7	70-130		%Rec	1	4/14/2022 8:15:00 PM	66814

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204537

Date Reported: 4/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WS22-22 4.0'

Project: Avalanche Journal Battery

Collection Date: 4/8/2022 4:40:00 PM

Lab ID: 2204537-019

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	96	60		mg/Kg	20	4/14/2022 5:21:04 PM	66846
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/15/2022 5:09:49 AM	66822
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/15/2022 5:09:49 AM	66822
Surr: DNOP	89.0	51.1-141		%Rec	1	4/15/2022 5:09:49 AM	66822
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/14/2022 8:35:00 PM	66814
Surr: BFB	96.7	37.7-212		%Rec	1	4/14/2022 8:35:00 PM	66814
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/14/2022 8:35:00 PM	66814
Toluene	ND	0.049		mg/Kg	1	4/14/2022 8:35:00 PM	66814
Ethylbenzene	ND	0.049		mg/Kg	1	4/14/2022 8:35:00 PM	66814
Xylenes, Total	ND	0.098		mg/Kg	1	4/14/2022 8:35:00 PM	66814
Surr: 4-Bromofluorobenzene	79.6	70-130		%Rec	1	4/14/2022 8:35:00 PM	66814

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204537

Date Reported: 4/21/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WS22-23 4.0'

Project: Avalanche Journal Battery

Collection Date: 4/8/2022 4:50:00 PM

Lab ID: 2204537-020

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	4/14/2022 1:27:02 PM	66848
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/15/2022 5:33:25 AM	66822
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/15/2022 5:33:25 AM	66822
Surr: DNOP	86.7	51.1-141		%Rec	1	4/15/2022 5:33:25 AM	66822
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/14/2022 9:54:00 PM	66814
Surr: BFB	96.9	37.7-212		%Rec	1	4/14/2022 9:54:00 PM	66814
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	4/14/2022 9:54:00 PM	66814
Toluene	ND	0.049		mg/Kg	1	4/14/2022 9:54:00 PM	66814
Ethylbenzene	ND	0.049		mg/Kg	1	4/14/2022 9:54:00 PM	66814
Xylenes, Total	ND	0.097		mg/Kg	1	4/14/2022 9:54:00 PM	66814
Surr: 4-Bromofluorobenzene	79.7	70-130		%Rec	1	4/14/2022 9:54:00 PM	66814

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204537

21-Apr-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>MB-66848</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66848</b>	RunNo: <b>87263</b>								
Prep Date: <b>4/14/2022</b>	Analysis Date: <b>4/14/2022</b>	SeqNo: <b>3085740</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-66848</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66848</b>	RunNo: <b>87263</b>								
Prep Date: <b>4/14/2022</b>	Analysis Date: <b>4/14/2022</b>	SeqNo: <b>3085741</b>	Units: <b>mg/Kg</b>							
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			

Sample ID: <b>MB-66846</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66846</b>	RunNo: <b>87264</b>								
Prep Date: <b>4/14/2022</b>	Analysis Date: <b>4/14/2022</b>	SeqNo: <b>3085821</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-66846</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66846</b>	RunNo: <b>87264</b>								
Prep Date: <b>4/14/2022</b>	Analysis Date: <b>4/14/2022</b>	SeqNo: <b>3085822</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.0	90	110			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204537

21-Apr-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>MB-66822</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66822</b>	RunNo: <b>87271</b>								
Prep Date: <b>4/13/2022</b>	Analysis Date: <b>4/14/2022</b>	SeqNo: <b>3086185</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		87.7	51.1	141			

Sample ID: <b>LCS-66822</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66822</b>	RunNo: <b>87271</b>								
Prep Date: <b>4/13/2022</b>	Analysis Date: <b>4/14/2022</b>	SeqNo: <b>3086186</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.3	68.9	135			
Surr: DNOP	4.3		5.000		85.9	51.1	141			

Sample ID: <b>MB-66821</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66821</b>	RunNo: <b>87271</b>								
Prep Date: <b>4/13/2022</b>	Analysis Date: <b>4/14/2022</b>	SeqNo: <b>3086187</b>			Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		102	51.1	141			

Sample ID: <b>LCS-66821</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66821</b>	RunNo: <b>87271</b>								
Prep Date: <b>4/13/2022</b>	Analysis Date: <b>4/14/2022</b>	SeqNo: <b>3086188</b>			Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		5.000		101	51.1	141			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204537

21-Apr-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>lcs-66814</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66814</b>			RunNo: <b>87256</b>						
Prep Date: <b>4/13/2022</b>	Analysis Date: <b>4/14/2022</b>			SeqNo: <b>3085446</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	72.3	137			
Surr: BFB	2100		1000		212	37.7	212			S

Sample ID: <b>mb-66814</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66814</b>			RunNo: <b>87256</b>						
Prep Date: <b>4/13/2022</b>	Analysis Date: <b>4/14/2022</b>			SeqNo: <b>3085447</b>		Units: <b>mg/Kg</b>				
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		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 Quantitative 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#: 2204537

21-Apr-22

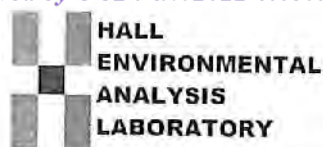
**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>lcs-66814</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66814</b>	RunNo: <b>87256</b>								
Prep Date: <b>4/13/2022</b>	Analysis Date: <b>4/14/2022</b>	SeqNo: <b>3085481</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.5	80	120			
Toluene	0.90	0.050	1.000	0	90.2	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.8	80	120			
Surr: 4-Bromofluorobenzene	0.82		1.000		82.3	70	130			

Sample ID: <b>mb-66814</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66814</b>	RunNo: <b>87256</b>								
Prep Date: <b>4/13/2022</b>	Analysis Date: <b>4/14/2022</b>	SeqNo: <b>3085482</b>	Units: <b>mg/Kg</b>							
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	0.82		1.000		81.9	70	130			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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: 2204537

RcptNo: 1

Received By: Cheyenne Cason 4/13/2022 7:30:00 AM

Completed By: Cheyenne Cason 4/13/2022 7:48:25 AM

Reviewed By: *SO* 4/13/22Chain 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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: *7*  
( $<2$  or  $>12$  unless noted)  
Adjusted? *7*  
Checked by: *jc 4/13/22*

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.0	Good	Not Present			

## Chain-of-Custody Record

Client: Eoka / Chase Settle

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ RushProject Name: Avalanche Tamar / BatteryProject #: 22E-00347

Project Manager:

Mike Moffitt

Sampler:

ALTOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including CF): 5.1 - 0.1 - 5.0 (°C)

Date	Time	Matrix	Sample Name
4-8-22	1510	Soil	WS22-01 4.0'
	1515		WS22-02 4.0'
	1520		WS22-03 4.0'
	1525		WS22-04 4.0'
	1530		WS22-05 4.0'
	1535		WS22-07 4.0'
	1540		WS22-08 4.0'
	1545		WS22-09 4.0'
	1550		WS22-10 4.0'
	1555		WS22-11 4.0'
	1600		WS22-12 4.0'
	1605		WS22-13 4.0'

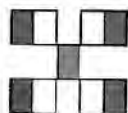
Date: 4/8/22 Time: 1900Date: 4/10/22 Time: 1900

Relinquished by:

Relinquished by:

Received by: Chase Settle Date: 4/12/22 Time: 1000Received by: Cmc Cam Date: 4/13/22 Time: 0730

Remarks:

CC: Michael MoffittHALL ENVIRONMENTAL  
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

8081 Pesticides/8082 PCB's	TPH/8015D (GRO / DRO / MRO)	BTX	MTBE / TMB's (8021)
EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl <sup>-</sup> , F <sup>-</sup> , Br <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , NO <sub>2</sub> <sup>-</sup> , PO <sub>4</sub> <sup>3-</sup> , SO <sub>4</sub> <sup>2-</sup>
8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	



## Chain-of-Custody Record

Client:

Ede/Chase Settle

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)

Accreditation:

☐ Az Compliance☐ NELAC☐ Other☐ EDD (Type)

Turn-Around Time:

2-DAY

☐ Standard☒ Rush

Project Name:

Avalanche Tunnel  
Battery

Project #:

22E-00347

Project Manager:

Mike Moffatt

Sampler:

AH

On Ice:

☒ Yes☐ No

# of Coolers:

1

Cooler Temp (including CF):

5.1 - 6.1 - 5.0 (°C)

Date:

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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

April 25, 2022

Mike Moffitt

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Avalanche Journal Battery

OrderNo.: 2204559

Dear Mike Moffitt:

Hall Environmental Analysis Laboratory received 11 sample(s) on 4/13/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109



## Analytical Report

Lab Order 2204559

Date Reported: 4/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-24 0-4'

Project: Avalanche Journal Battery

Collection Date: 4/11/2022 12:40:00 PM

Lab ID: 2204559-001

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	110	60		mg/Kg	20	4/19/2022 5:17:24 PM	66928
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/14/2022 5:33:45 PM	66831
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/14/2022 5:33:45 PM	66831
Surr: DNOP	71.5	51.1-141		%Rec	1	4/14/2022 5:33:45 PM	66831
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/14/2022 9:34:47 PM	66828
Surr: BFB	101	37.7-212		%Rec	1	4/14/2022 9:34:47 PM	66828
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/14/2022 9:34:47 PM	66828
Toluene	ND	0.048		mg/Kg	1	4/14/2022 9:34:47 PM	66828
Ethylbenzene	ND	0.048		mg/Kg	1	4/14/2022 9:34:47 PM	66828
Xylenes, Total	ND	0.096		mg/Kg	1	4/14/2022 9:34:47 PM	66828
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	4/14/2022 9:34:47 PM	66828

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204559

Date Reported: 4/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-25 0-4'

Project: Avalanche Journal Battery

Collection Date: 4/11/2022 12:50:00 PM

Lab ID: 2204559-002

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	220	60		mg/Kg	20	4/19/2022 5:54:27 PM	66928
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/14/2022 6:47:16 PM	66831
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/14/2022 6:47:16 PM	66831
Surr: DNOP	51.6	51.1-141		%Rec	1	4/14/2022 6:47:16 PM	66831
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/14/2022 10:45:18 PM	66828
Surr: BFB	101	37.7-212		%Rec	1	4/14/2022 10:45:18 PM	66828
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/14/2022 10:45:18 PM	66828
Toluene	ND	0.047		mg/Kg	1	4/14/2022 10:45:18 PM	66828
Ethylbenzene	ND	0.047		mg/Kg	1	4/14/2022 10:45:18 PM	66828
Xylenes, Total	ND	0.095		mg/Kg	1	4/14/2022 10:45:18 PM	66828
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	4/14/2022 10:45:18 PM	66828

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204559

Date Reported: 4/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-26 0-4'

Project: Avalanche Journal Battery

Collection Date: 4/11/2022 2:00:00 PM

Lab ID: 2204559-003

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/19/2022 6:06:48 PM	66928
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/14/2022 7:11:43 PM	66831
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/14/2022 7:11:43 PM	66831
Surr: DNOP	66.9	51.1-141		%Rec	1	4/14/2022 7:11:43 PM	66831
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/15/2022 1:05:40 AM	66828
Surr: BFB	98.9	37.7-212		%Rec	1	4/15/2022 1:05:40 AM	66828
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/15/2022 1:05:40 AM	66828
Toluene	ND	0.047		mg/Kg	1	4/15/2022 1:05:40 AM	66828
Ethylbenzene	ND	0.047		mg/Kg	1	4/15/2022 1:05:40 AM	66828
Xylenes, Total	ND	0.094		mg/Kg	1	4/15/2022 1:05:40 AM	66828
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	4/15/2022 1:05:40 AM	66828

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204559

Date Reported: 4/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-01 4'

Project: Avalanche Journal Battery

Collection Date: 4/11/2022 3:00:00 PM

Lab ID: 2204559-004

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/19/2022 6:19:08 PM	66928
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/14/2022 7:36:18 PM	66831
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	4/14/2022 7:36:18 PM	66831
Surr: DNOP	59.8	51.1-141		%Rec	1	4/14/2022 7:36:18 PM	66831
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/15/2022 1:29:14 AM	66828
Surr: BFB	102	37.7-212		%Rec	1	4/15/2022 1:29:14 AM	66828
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/15/2022 1:29:14 AM	66828
Toluene	ND	0.048		mg/Kg	1	4/15/2022 1:29:14 AM	66828
Ethylbenzene	ND	0.048		mg/Kg	1	4/15/2022 1:29:14 AM	66828
Xylenes, Total	ND	0.096		mg/Kg	1	4/15/2022 1:29:14 AM	66828
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	4/15/2022 1:29:14 AM	66828

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204559

Date Reported: 4/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-02 4'

Project: Avalanche Journal Battery

Collection Date: 4/11/2022 3:10:00 PM

Lab ID: 2204559-005

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/19/2022 6:31:28 PM	66928
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/14/2022 8:00:42 PM	66831
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/14/2022 8:00:42 PM	66831
Surr: DNOP	73.6	51.1-141		%Rec	1	4/14/2022 8:00:42 PM	66831
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/15/2022 1:52:43 AM	66828
Surr: BFB	102	37.7-212		%Rec	1	4/15/2022 1:52:43 AM	66828
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/15/2022 1:52:43 AM	66828
Toluene	ND	0.047		mg/Kg	1	4/15/2022 1:52:43 AM	66828
Ethylbenzene	ND	0.047		mg/Kg	1	4/15/2022 1:52:43 AM	66828
Xylenes, Total	ND	0.095		mg/Kg	1	4/15/2022 1:52:43 AM	66828
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	4/15/2022 1:52:43 AM	66828

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204559

Date Reported: 4/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-03 4'

Project: Avalanche Journal Battery

Collection Date: 4/11/2022 3:20:00 PM

Lab ID: 2204559-006

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/19/2022 6:43:48 PM	66928
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/14/2022 8:25:38 PM	66831
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/14/2022 8:25:38 PM	66831
Surr: DNOP	86.2	51.1-141		%Rec	1	4/14/2022 8:25:38 PM	66831
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/15/2022 2:16:04 AM	66828
Surr: BFB	104	37.7-212		%Rec	1	4/15/2022 2:16:04 AM	66828
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/15/2022 2:16:04 AM	66828
Toluene	ND	0.048		mg/Kg	1	4/15/2022 2:16:04 AM	66828
Ethylbenzene	ND	0.048		mg/Kg	1	4/15/2022 2:16:04 AM	66828
Xylenes, Total	ND	0.096		mg/Kg	1	4/15/2022 2:16:04 AM	66828
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	4/15/2022 2:16:04 AM	66828

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204559

Date Reported: 4/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-04 4'

Project: Avalanche Journal Battery

Collection Date: 4/11/2022 3:30:00 PM

Lab ID: 2204559-007

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/19/2022 6:56:09 PM	66928
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/14/2022 8:50:08 PM	66831
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/14/2022 8:50:08 PM	66831
Surr: DNOP	84.5	51.1-141		%Rec	1	4/14/2022 8:50:08 PM	66831
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/15/2022 2:39:43 AM	66828
Surr: BFB	101	37.7-212		%Rec	1	4/15/2022 2:39:43 AM	66828
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/15/2022 2:39:43 AM	66828
Toluene	ND	0.048		mg/Kg	1	4/15/2022 2:39:43 AM	66828
Ethylbenzene	ND	0.048		mg/Kg	1	4/15/2022 2:39:43 AM	66828
Xylenes, Total	ND	0.097		mg/Kg	1	4/15/2022 2:39:43 AM	66828
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	4/15/2022 2:39:43 AM	66828

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204559

Date Reported: 4/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-05 4'

Project: Avalanche Journal Battery

Collection Date: 4/11/2022 3:40:00 PM

Lab ID: 2204559-008

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	59		mg/Kg	20	4/19/2022 5:53:31 PM	66935
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/14/2022 9:14:36 PM	66831
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/14/2022 9:14:36 PM	66831
Surr: DNOP	73.5	51.1-141		%Rec	1	4/14/2022 9:14:36 PM	66831
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/15/2022 3:03:13 AM	66828
Surr: BFB	104	37.7-212		%Rec	1	4/15/2022 3:03:13 AM	66828
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/15/2022 3:03:13 AM	66828
Toluene	ND	0.049		mg/Kg	1	4/15/2022 3:03:13 AM	66828
Ethylbenzene	ND	0.049		mg/Kg	1	4/15/2022 3:03:13 AM	66828
Xylenes, Total	ND	0.097		mg/Kg	1	4/15/2022 3:03:13 AM	66828
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	4/15/2022 3:03:13 AM	66828

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204559

Date Reported: 4/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-06 4'

Project: Avalanche Journal Battery

Collection Date: 4/11/2022 3:50:00 PM

Lab ID: 2204559-009

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/19/2022 6:55:35 PM	66935
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/14/2022 9:39:13 PM	66831
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/14/2022 9:39:13 PM	66831
Surr: DNOP	64.4	51.1-141		%Rec	1	4/14/2022 9:39:13 PM	66831
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/15/2022 3:26:42 AM	66828
Surr: BFB	100	37.7-212		%Rec	1	4/15/2022 3:26:42 AM	66828
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/15/2022 3:26:42 AM	66828
Toluene	ND	0.047		mg/Kg	1	4/15/2022 3:26:42 AM	66828
Ethylbenzene	ND	0.047		mg/Kg	1	4/15/2022 3:26:42 AM	66828
Xylenes, Total	ND	0.094		mg/Kg	1	4/15/2022 3:26:42 AM	66828
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	4/15/2022 3:26:42 AM	66828

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2204559

Date Reported: 4/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-07 4'

Project: Avalanche Journal Battery

Collection Date: 4/11/2022 4:00:00 PM

Lab ID: 2204559-010

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/19/2022 7:08:00 PM	66935
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/14/2022 10:03:41 PM	66831
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/14/2022 10:03:41 PM	66831
Surr: DNOP	61.5	51.1-141		%Rec	1	4/14/2022 10:03:41 PM	66831
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/15/2022 3:50:14 AM	66828
Surr: BFB	103	37.7-212		%Rec	1	4/15/2022 3:50:14 AM	66828
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/15/2022 3:50:14 AM	66828
Toluene	ND	0.047		mg/Kg	1	4/15/2022 3:50:14 AM	66828
Ethylbenzene	ND	0.047		mg/Kg	1	4/15/2022 3:50:14 AM	66828
Xylenes, Total	ND	0.095		mg/Kg	1	4/15/2022 3:50:14 AM	66828
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	4/15/2022 3:50:14 AM	66828

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204559

Date Reported: 4/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-08 4'

Project: Avalanche Journal Battery

Collection Date: 4/11/2022 4:10:00 PM

Lab ID: 2204559-011

Matrix: SOIL

Received Date: 4/13/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/19/2022 7:20:25 PM	66935
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/14/2022 10:28:04 PM	66831
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/14/2022 10:28:04 PM	66831
Surr: DNOP	73.8	51.1-141		%Rec	1	4/14/2022 10:28:04 PM	66831
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/15/2022 4:13:42 AM	66828
Surr: BFB	101	37.7-212		%Rec	1	4/15/2022 4:13:42 AM	66828
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/15/2022 4:13:42 AM	66828
Toluene	ND	0.046		mg/Kg	1	4/15/2022 4:13:42 AM	66828
Ethylbenzene	ND	0.046		mg/Kg	1	4/15/2022 4:13:42 AM	66828
Xylenes, Total	ND	0.092		mg/Kg	1	4/15/2022 4:13:42 AM	66828
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	4/15/2022 4:13:42 AM	66828

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		



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

WO#: 2204559

25-Apr-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>MB-66928</b>	SampType: <b>mblk</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBS</b>	Batch ID: <b>66928</b>		RunNo: <b>87348</b>							
Prep Date: <b>4/19/2022</b>	Analysis Date: <b>4/19/2022</b>		SeqNo: <b>3089975</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-66928</b>	SampType: <b>lcs</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>66928</b>		RunNo: <b>87348</b>							
Prep Date: <b>4/19/2022</b>	Analysis Date: <b>4/19/2022</b>		SeqNo: <b>3089976</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.6	90	110			

Sample ID: <b>MB-66935</b>	SampType: <b>mblk</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>PBS</b>	Batch ID: <b>66935</b>		RunNo: <b>87374</b>							
Prep Date: <b>4/19/2022</b>	Analysis Date: <b>4/19/2022</b>		SeqNo: <b>3091065</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-66935</b>	SampType: <b>lcs</b>		TestCode: <b>EPA Method 300.0: Anions</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>66935</b>		RunNo: <b>87374</b>							
Prep Date: <b>4/19/2022</b>	Analysis Date: <b>4/19/2022</b>		SeqNo: <b>3091066</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.5	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 Quantitative 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#: 2204559

25-Apr-22

Client: EOG

Project: Avalanche Journal Battery

Sample ID: MB-66831	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66831	RunNo: 87242								
Prep Date: 4/13/2022	Analysis Date: 4/14/2022	SeqNo: 3086050	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		99.5	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 Quantitative 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

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

WO#: 2204559

25-Apr-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>mb-66828</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66828</b>	RunNo: <b>87255</b>								
Prep Date: <b>4/13/2022</b>	Analysis Date: <b>4/14/2022</b>	SeqNo: <b>3085381</b>	Units: <b>mg/Kg</b>							
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		105	37.7	212			

Sample ID: <b>lcs-66828</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66828</b>	RunNo: <b>87255</b>								
Prep Date: <b>4/13/2022</b>	Analysis Date: <b>4/14/2022</b>	SeqNo: <b>3085382</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.6	72.3	137			
Surr: BFB	2100		1000		214	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 Quantitative 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#: 2204559

25-Apr-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>mb-66828</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66828</b>	RunNo: <b>87255</b>								
Prep Date: <b>4/13/2022</b>	Analysis Date: <b>4/14/2022</b>	SeqNo: <b>3085423</b>	Units: <b>mg/Kg</b>							
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		104	70	130			

Sample ID: <b>LCS-66828</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66828</b>	RunNo: <b>87255</b>								
Prep Date: <b>4/13/2022</b>	Analysis Date: <b>4/14/2022</b>	SeqNo: <b>3085424</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.2	80	120			
Toluene	0.88	0.050	1.000	0	87.7	80	120			
Ethylbenzene	0.89	0.050	1.000	0	88.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.5	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	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 Quantitative 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: **2204559**

RcptNo: **1**

Received By: **Cheyenne Cason**

4/13/2022 7:30:00 AM

*Handwritten signature*

Completed By: **Cheyenne Cason**

4/13/2022 7:58:05 AM

*Handwritten signature*

Reviewed By: *Handwritten signature* **4-13-22**

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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 ☐ # of preserved bottles checked for pH: *(Handwritten: 2)*
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted? *(Handwritten: 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 ☐ Checked by: *Handwritten: gmc 4/13/22*

### 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.0	Good	Not Present			









Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

May 06, 2022

Mike Moffitt

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Avalanche Journal Battery

OrderNo.: 2204626

Dear Mike Moffitt:

Hall Environmental Analysis Laboratory received 14 sample(s) on 4/14/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2204626

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-28 0-4'

Project: Avalanche Journal Battery

Collection Date: 4/12/2022 10:05:00 AM

Lab ID: 2204626-001

Matrix: SOIL

Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/20/2022 10:22:18 PM	66956
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/18/2022 2:24:11 PM	66872
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/18/2022 2:24:11 PM	66872
Surr: DNOP	91.8	51.1-141		%Rec	1	4/18/2022 2:24:11 PM	66872
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/15/2022 11:42:00 AM	66858
Surr: BFB	98.9	37.7-212		%Rec	1	4/15/2022 11:42:00 AM	66858
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	4/15/2022 11:42:00 AM	66858
Toluene	ND	0.048		mg/Kg	1	4/15/2022 11:42:00 AM	66858
Ethylbenzene	ND	0.048		mg/Kg	1	4/15/2022 11:42:00 AM	66858
Xylenes, Total	ND	0.096		mg/Kg	1	4/15/2022 11:42:00 AM	66858
Surr: 4-Bromofluorobenzene	81.4	70-130		%Rec	1	4/15/2022 11:42:00 AM	66858

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204626

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-09 5'

Project: Avalanche Journal Battery

Collection Date: 4/12/2022 10:20:00 AM

Lab ID: 2204626-002

Matrix: SOIL

Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	2400	150		mg/Kg	50	4/21/2022 12:32:22 PM	66956
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/18/2022 3:36:34 PM	66872
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/18/2022 3:36:34 PM	66872
Surr: DNOP	82.5	51.1-141		%Rec	1	4/18/2022 3:36:34 PM	66872
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/15/2022 12:41:00 PM	66858
Surr: BFB	97.0	37.7-212		%Rec	1	4/15/2022 12:41:00 PM	66858
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	4/15/2022 12:41:00 PM	66858
Toluene	ND	0.048		mg/Kg	1	4/15/2022 12:41:00 PM	66858
Ethylbenzene	ND	0.048		mg/Kg	1	4/15/2022 12:41:00 PM	66858
Xylenes, Total	ND	0.096		mg/Kg	1	4/15/2022 12:41:00 PM	66858
Surr: 4-Bromofluorobenzene	77.5	70-130		%Rec	1	4/15/2022 12:41:00 PM	66858

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204626

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-10 5'

Project: Avalanche Journal Battery

Collection Date: 4/12/2022 10:25:00 AM

Lab ID: 2204626-003

Matrix: SOIL

Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	5500	150		mg/Kg	50	4/21/2022 12:44:47 PM	66956
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/18/2022 4:00:21 PM	66872
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/18/2022 4:00:21 PM	66872
Surr: DNOP	80.3	51.1-141		%Rec	1	4/18/2022 4:00:21 PM	66872
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/15/2022 1:39:00 PM	66858
Surr: BFB	94.8	37.7-212		%Rec	1	4/15/2022 1:39:00 PM	66858
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.025		mg/Kg	1	4/15/2022 1:39:00 PM	66858
Toluene	ND	0.049		mg/Kg	1	4/15/2022 1:39:00 PM	66858
Ethylbenzene	ND	0.049		mg/Kg	1	4/15/2022 1:39:00 PM	66858
Xylenes, Total	ND	0.099		mg/Kg	1	4/15/2022 1:39:00 PM	66858
Surr: 4-Bromofluorobenzene	79.2	70-130		%Rec	1	4/15/2022 1:39:00 PM	66858

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204626

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-11 5'

Project: Avalanche Journal Battery

Collection Date: 4/12/2022 10:35:00 AM

Lab ID: 2204626-004

Matrix: SOIL

Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	1600	60		mg/Kg	20	4/20/2022 10:59:32 PM	66956
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/18/2022 4:24:18 PM	66872
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/18/2022 4:24:18 PM	66872
Surr: DNOP	85.8	51.1-141		%Rec	1	4/18/2022 4:24:18 PM	66872
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/15/2022 1:59:00 PM	66858
Surr: BFB	98.7	37.7-212		%Rec	1	4/15/2022 1:59:00 PM	66858
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	4/15/2022 1:59:00 PM	66858
Toluene	ND	0.048		mg/Kg	1	4/15/2022 1:59:00 PM	66858
Ethylbenzene	ND	0.048		mg/Kg	1	4/15/2022 1:59:00 PM	66858
Xylenes, Total	ND	0.095		mg/Kg	1	4/15/2022 1:59:00 PM	66858
Surr: 4-Bromofluorobenzene	78.0	70-130		%Rec	1	4/15/2022 1:59:00 PM	66858

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204626

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-12 5'

Project: Avalanche Journal Battery

Collection Date: 4/12/2022 10:45:00 AM

Lab ID: 2204626-005

Matrix: SOIL

Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	6600	300		mg/Kg	100	4/21/2022 12:57:11 PM	66956
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	4000	98		mg/Kg	10	4/21/2022 10:13:22 AM	66872
Motor Oil Range Organics (MRO)	3200	490		mg/Kg	10	4/21/2022 10:13:22 AM	66872
Surr: DNOP	0	51.1-141	S	%Rec	10	4/21/2022 10:13:22 AM	66872
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/15/2022 2:19:00 PM	66858
Surr: BFB	94.2	37.7-212		%Rec	1	4/15/2022 2:19:00 PM	66858
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.025		mg/Kg	1	4/15/2022 2:19:00 PM	66858
Toluene	ND	0.049		mg/Kg	1	4/15/2022 2:19:00 PM	66858
Ethylbenzene	ND	0.049		mg/Kg	1	4/15/2022 2:19:00 PM	66858
Xylenes, Total	ND	0.099		mg/Kg	1	4/15/2022 2:19:00 PM	66858
Surr: 4-Bromofluorobenzene	77.6	70-130		%Rec	1	4/15/2022 2:19:00 PM	66858

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		



## Analytical Report

Lab Order 2204626

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-15 5'

Project: Avalanche Journal Battery

Collection Date: 4/12/2022 11:15:00 AM

Lab ID: 2204626-006

Matrix: SOIL

Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	4400	150		mg/Kg	50	4/21/2022 1:09:36 PM	66956
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/18/2022 5:11:45 PM	66872
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/18/2022 5:11:45 PM	66872
Surr: DNOP	83.9	51.1-141		%Rec	1	4/18/2022 5:11:45 PM	66872
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/15/2022 2:38:00 PM	66858
Surr: BFB	95.9	37.7-212		%Rec	1	4/15/2022 2:38:00 PM	66858
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	4/15/2022 2:38:00 PM	66858
Toluene	ND	0.047		mg/Kg	1	4/15/2022 2:38:00 PM	66858
Ethylbenzene	ND	0.047		mg/Kg	1	4/15/2022 2:38:00 PM	66858
Xylenes, Total	ND	0.095		mg/Kg	1	4/15/2022 2:38:00 PM	66858
Surr: 4-Bromofluorobenzene	79.2	70-130		%Rec	1	4/15/2022 2:38:00 PM	66858

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204626

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-16 5'

Project: Avalanche Journal Battery

Collection Date: 4/12/2022 11:25:00 AM

Lab ID: 2204626-007

Matrix: SOIL

Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	5400	300		mg/Kg	100	4/21/2022 1:46:48 PM	66956
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/18/2022 5:35:29 PM	66872
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/18/2022 5:35:29 PM	66872
Surr: DNOP	88.8	51.1-141		%Rec	1	4/18/2022 5:35:29 PM	66872
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/15/2022 2:58:00 PM	66858
Surr: BFB	97.2	37.7-212		%Rec	1	4/15/2022 2:58:00 PM	66858
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	4/15/2022 2:58:00 PM	66858
Toluene	ND	0.048		mg/Kg	1	4/15/2022 2:58:00 PM	66858
Ethylbenzene	ND	0.048		mg/Kg	1	4/15/2022 2:58:00 PM	66858
Xylenes, Total	ND	0.097		mg/Kg	1	4/15/2022 2:58:00 PM	66858
Surr: 4-Bromofluorobenzene	80.6	70-130		%Rec	1	4/15/2022 2:58:00 PM	66858

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204626

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-17 5'

Project: Avalanche Journal Battery

Collection Date: 4/12/2022 11:35:00 AM

Lab ID: 2204626-008

Matrix: SOIL

Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	5000	300		mg/Kg	100	4/21/2022 1:59:13 PM	66956
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/18/2022 5:59:13 PM	66872
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/18/2022 5:59:13 PM	66872
Surr: DNOP	89.0	51.1-141		%Rec	1	4/18/2022 5:59:13 PM	66872
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/15/2022 3:18:00 PM	66858
Surr: BFB	102	37.7-212		%Rec	1	4/15/2022 3:18:00 PM	66858
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.025		mg/Kg	1	4/15/2022 3:18:00 PM	66858
Toluene	ND	0.049		mg/Kg	1	4/15/2022 3:18:00 PM	66858
Ethylbenzene	ND	0.049		mg/Kg	1	4/15/2022 3:18:00 PM	66858
Xylenes, Total	ND	0.099		mg/Kg	1	4/15/2022 3:18:00 PM	66858
Surr: 4-Bromofluorobenzene	82.4	70-130		%Rec	1	4/15/2022 3:18:00 PM	66858

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204626

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-18 5'

Project: Avalanche Journal Battery

Collection Date: 4/12/2022 11:45:00 AM

Lab ID: 2204626-009

Matrix: SOIL

Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	4800	150		mg/Kg	50	4/21/2022 2:11:37 PM	66956
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	38	10		mg/Kg	1	4/22/2022 12:12:27 PM	67010
Motor Oil Range Organics (MRO)	91	50		mg/Kg	1	4/22/2022 12:12:27 PM	67010
Surr: DNOP	111	51.1-141		%Rec	1	4/22/2022 12:12:27 PM	67010
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/15/2022 3:37:00 PM	66858
Surr: BFB	97.7	37.7-212		%Rec	1	4/15/2022 3:37:00 PM	66858
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.023		mg/Kg	1	4/15/2022 3:37:00 PM	66858
Toluene	ND	0.046		mg/Kg	1	4/15/2022 3:37:00 PM	66858
Ethylbenzene	ND	0.046		mg/Kg	1	4/15/2022 3:37:00 PM	66858
Xylenes, Total	ND	0.093		mg/Kg	1	4/15/2022 3:37:00 PM	66858
Surr: 4-Bromofluorobenzene	81.8	70-130		%Rec	1	4/15/2022 3:37:00 PM	66858

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204626

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-19 5'

Project: Avalanche Journal Battery

Collection Date: 4/12/2022 11:55:00 AM

Lab ID: 2204626-010

Matrix: SOIL

Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	2400	150		mg/Kg	50	4/21/2022 2:24:02 PM	66956
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/18/2022 6:46:28 PM	66872
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/18/2022 6:46:28 PM	66872
Surr: DNOP	91.8	51.1-141		%Rec	1	4/18/2022 6:46:28 PM	66872
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/15/2022 3:57:00 PM	66858
Surr: BFB	94.4	37.7-212		%Rec	1	4/15/2022 3:57:00 PM	66858
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	4/15/2022 3:57:00 PM	66858
Toluene	ND	0.048		mg/Kg	1	4/15/2022 3:57:00 PM	66858
Ethylbenzene	ND	0.048		mg/Kg	1	4/15/2022 3:57:00 PM	66858
Xylenes, Total	ND	0.096		mg/Kg	1	4/15/2022 3:57:00 PM	66858
Surr: 4-Bromofluorobenzene	79.1	70-130		%Rec	1	4/15/2022 3:57:00 PM	66858

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2204626

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-20 5'

Project: Avalanche Journal Battery

Collection Date: 4/12/2022 12:05:00 PM

Lab ID: 2204626-011

Matrix: SOIL

Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	1200	60		mg/Kg	20	4/21/2022 1:16:04 AM	66956
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/18/2022 7:10:03 PM	66872
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/18/2022 7:10:03 PM	66872
Surr: DNOP	92.6	51.1-141		%Rec	1	4/18/2022 7:10:03 PM	66872
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/15/2022 4:56:00 PM	66858
Surr: BFB	99.5	37.7-212		%Rec	1	4/15/2022 4:56:00 PM	66858
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	4/15/2022 4:56:00 PM	66858
Toluene	ND	0.050		mg/Kg	1	4/15/2022 4:56:00 PM	66858
Ethylbenzene	ND	0.050		mg/Kg	1	4/15/2022 4:56:00 PM	66858
Xylenes, Total	ND	0.10		mg/Kg	1	4/15/2022 4:56:00 PM	66858
Surr: 4-Bromofluorobenzene	80.5	70-130		%Rec	1	4/15/2022 4:56:00 PM	66858

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204626

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-21 5'

Project: Avalanche Journal Battery

Collection Date: 4/12/2022 12:30:00 PM

Lab ID: 2204626-012

Matrix: SOIL

Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	2500	150		mg/Kg	50	4/21/2022 2:36:27 PM	66956
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/18/2022 7:33:48 PM	66872
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/18/2022 7:33:48 PM	66872
Surr: DNOP	82.8	51.1-141		%Rec	1	4/18/2022 7:33:48 PM	66872
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/15/2022 5:15:00 PM	66858
Surr: BFB	97.2	37.7-212		%Rec	1	4/15/2022 5:15:00 PM	66858
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.025		mg/Kg	1	4/15/2022 5:15:00 PM	66858
Toluene	ND	0.049		mg/Kg	1	4/15/2022 5:15:00 PM	66858
Ethylbenzene	ND	0.049		mg/Kg	1	4/15/2022 5:15:00 PM	66858
Xylenes, Total	ND	0.099		mg/Kg	1	4/15/2022 5:15:00 PM	66858
Surr: 4-Bromofluorobenzene	78.9	70-130		%Rec	1	4/15/2022 5:15:00 PM	66858

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 12 of 18

## Analytical Report

Lab Order 2204626

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-22 5'

Project: Avalanche Journal Battery

Collection Date: 4/12/2022 12:40:00 PM

Lab ID: 2204626-013

Matrix: SOIL

Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	4000	150		mg/Kg	50	4/21/2022 2:48:51 PM	66956
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/18/2022 7:57:28 PM	66872
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/18/2022 7:57:28 PM	66872
Surr: DNOP	83.6	51.1-141		%Rec	1	4/18/2022 7:57:28 PM	66872
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/15/2022 5:35:00 PM	66858
Surr: BFB	97.2	37.7-212		%Rec	1	4/15/2022 5:35:00 PM	66858
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	4/15/2022 5:35:00 PM	66858
Toluene	ND	0.049		mg/Kg	1	4/15/2022 5:35:00 PM	66858
Ethylbenzene	ND	0.049		mg/Kg	1	4/15/2022 5:35:00 PM	66858
Xylenes, Total	ND	0.098		mg/Kg	1	4/15/2022 5:35:00 PM	66858
Surr: 4-Bromofluorobenzene	80.2	70-130		%Rec	1	4/15/2022 5:35:00 PM	66858

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2204626

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-23 5'

Project: Avalanche Journal Battery

Collection Date: 4/12/2022 12:50:00 PM

Lab ID: 2204626-014

Matrix: SOIL

Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	5400	150		mg/Kg	50	4/21/2022 3:01:15 PM	66956
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/18/2022 8:21:07 PM	66872
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/18/2022 8:21:07 PM	66872
Surr: DNOP	86.4	51.1-141		%Rec	1	4/18/2022 8:21:07 PM	66872
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/15/2022 5:55:00 PM	66858
Surr: BFB	95.3	37.7-212		%Rec	1	4/15/2022 5:55:00 PM	66858
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	4/15/2022 5:55:00 PM	66858
Toluene	ND	0.048		mg/Kg	1	4/15/2022 5:55:00 PM	66858
Ethylbenzene	ND	0.048		mg/Kg	1	4/15/2022 5:55:00 PM	66858
Xylenes, Total	ND	0.095		mg/Kg	1	4/15/2022 5:55:00 PM	66858
Surr: 4-Bromofluorobenzene	79.6	70-130		%Rec	1	4/15/2022 5:55:00 PM	66858

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204626

06-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>MB-66956</b>	SampType: <b>mbk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66956</b>	RunNo: <b>87381</b>								
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/20/2022</b>	SeqNo: <b>3091708</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-66956</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66956</b>	RunNo: <b>87381</b>								
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/20/2022</b>	SeqNo: <b>3091709</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.6	90	110			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204626

06-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>LCS-66872</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66872</b>	RunNo: <b>87307</b>								
Prep Date: <b>4/15/2022</b>	Analysis Date: <b>4/18/2022</b>	SeqNo: <b>3089092</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	68.9	135			
Surr: DNOP	3.8		5.000		76.7	51.1	141			

Sample ID: <b>MB-66872</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66872</b>	RunNo: <b>87307</b>								
Prep Date: <b>4/15/2022</b>	Analysis Date: <b>4/18/2022</b>	SeqNo: <b>3089182</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.9		10.00		79.1	51.1	141			

Sample ID: <b>LCS-67010</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67010</b>	RunNo: <b>87445</b>								
Prep Date: <b>4/22/2022</b>	Analysis Date: <b>4/22/2022</b>	SeqNo: <b>3093849</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.1	68.9	135			
Surr: DNOP	3.7		5.000		74.5	51.1	141			

Sample ID: <b>MB-67010</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67010</b>	RunNo: <b>87445</b>								
Prep Date: <b>4/22/2022</b>	Analysis Date: <b>4/22/2022</b>	SeqNo: <b>3093850</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.3		10.00		83.0	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 Quantitative 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#: 2204626

06-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>lcs-66858</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66858</b>			RunNo: <b>87288</b>						
Prep Date: <b>4/14/2022</b>	Analysis Date: <b>4/15/2022</b>			SeqNo: <b>3086732</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	72.3	137			
Surr: BFB	2100		1000		212	37.7	212			S

Sample ID: <b>mb-66858</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66858</b>			RunNo: <b>87288</b>						
Prep Date: <b>4/14/2022</b>	Analysis Date: <b>4/15/2022</b>			SeqNo: <b>3086733</b>		Units: <b>mg/Kg</b>				
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		103	37.7	212			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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

WO#: 2204626

06-May-22

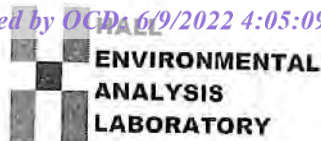
**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>lcs-66858</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66858</b>			RunNo: <b>87288</b>						
Prep Date: <b>4/14/2022</b>	Analysis Date: <b>4/15/2022</b>			SeqNo: <b>3086759</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	84.1	80	120			
Toluene	0.85	0.050	1.000	0	85.2	80	120			
Ethylbenzene	0.85	0.050	1.000	0	84.5	80	120			
Xylenes, Total	2.5	0.10	3.000	0	83.6	80	120			
Surr: 4-Bromofluorobenzene	0.81		1.000		80.9	70	130			

Sample ID: <b>mb-66858</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66858</b>			RunNo: <b>87288</b>						
Prep Date: <b>4/14/2022</b>	Analysis Date: <b>4/15/2022</b>			SeqNo: <b>3086760</b>		Units: <b>mg/Kg</b>				
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	0.80		1.000		79.9	70	130			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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: 2204626

RcptNo: 1

Received By: Sean Livingston 4/14/2022 8:00:00 AM

Completed By: Sean Livingston 4/14/2022 8:39:01 AM

Reviewed By: JN 4/14/22

*Sean Livingston*  
*Sean Livingston*

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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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: KPG 4/14/22

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.8	Good				
2	1.0	Good				





## Chain-of-Custody Record

Client: EDC / Chase Settlement

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC☐ Other☐ EDD (Type)

Project Manager:

Mike Moffitt

Sampler:

On Ice: ☒ Yes ☐ No# of Coolers: 2Cooler Temp (including CF): 1.0 ± 0.10 (°C)

Date Time Matrix Sample Name

4-12-22 12:40 Soil RES22-22 6'

4-12-22 11:50 Soil RES22-23 5'

Container Type and #

1 Jar

1 Jar

Preservative Type

Ice

Ice

HEAL No.

013

014

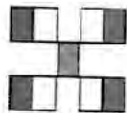
Turn-Around Time:

☒ StandardRush 5 Day

Project Name:

Alamogordo Journal Battery

Project #:

226-00347

## 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<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Remarks:

Received by: Alamogordo Date: 4/13/22 Time: 1230

Via:

Date: 4/14/22 Time: 8:00Received by: See Alamogordo Date: 4/14/22 Time: 8:00

Via:

Date: 4/14/22 Time: 8:00Received by: See Alamogordo Date: 4/14/22 Time: 8:00

Via:

Date: 4/14/22 Time: 8:00Received by: See Alamogordo Date: 4/14/22 Time: 8:00

Via:

Date: 4/14/22 Time: 8:00Received by: See Alamogordo Date: 4/14/22 Time: 8:00

Via:

Date: 4/14/22 Time: 8:00Received by: See Alamogordo Date: 4/14/22 Time: 8:00

Via:

Date: 4/14/22 Time: 8:00Received by: See Alamogordo Date: 4/14/22 Time: 8:00

Via:

Date: 4/14/22 Time: 8:00Received by: See Alamogordo Date: 4/14/22 Time: 8:00

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Via:

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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

May 03, 2022

Mike Moffitt

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX

RE: Avalanche Journal Battery

OrderNo.: 2204847

Dear Mike Moffitt:

Hall Environmental Analysis Laboratory received 18 sample(s) on 4/20/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2204847

Date Reported: 5/3/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-24 4'

Project: Avalanche Journal Battery

Collection Date: 4/13/2022 8:55:00 AM

Lab ID: 2204847-001

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	250	60		mg/Kg	20	4/25/2022 4:48:32 PM	67043
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/25/2022 12:51:43 PM	66976
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/25/2022 12:51:43 PM	66976
Surr: DNOP	85.9	51.1-141		%Rec	1	4/25/2022 12:51:43 PM	66976
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/22/2022 1:42:00 AM	66961
Surr: BFB	106	37.7-212		%Rec	1	4/22/2022 1:42:00 AM	66961
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	4/22/2022 1:42:00 AM	66961
Toluene	ND	0.048		mg/Kg	1	4/22/2022 1:42:00 AM	66961
Ethylbenzene	ND	0.048		mg/Kg	1	4/22/2022 1:42:00 AM	66961
Xylenes, Total	ND	0.097		mg/Kg	1	4/22/2022 1:42:00 AM	66961
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	4/22/2022 1:42:00 AM	66961

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204847

Date Reported: 5/3/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-25 4'

Project: Avalanche Journal Battery

Collection Date: 4/13/2022 9:00:00 AM

Lab ID: 2204847-002

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	75	60		mg/Kg	20	4/25/2022 5:25:34 PM	67043
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	4/25/2022 1:15:31 PM	66976
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	4/25/2022 1:15:31 PM	66976
Surr: DNOP	66.7	51.1-141		%Rec	1	4/25/2022 1:15:31 PM	66976
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/22/2022 2:02:00 AM	66961
Surr: BFB	109	37.7-212		%Rec	1	4/22/2022 2:02:00 AM	66961
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	4/22/2022 2:02:00 AM	66961
Toluene	ND	0.048		mg/Kg	1	4/22/2022 2:02:00 AM	66961
Ethylbenzene	ND	0.048		mg/Kg	1	4/22/2022 2:02:00 AM	66961
Xylenes, Total	ND	0.097		mg/Kg	1	4/22/2022 2:02:00 AM	66961
Surr: 4-Bromofluorobenzene	87.6	70-130		%Rec	1	4/22/2022 2:02:00 AM	66961

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204847

Date Reported: 5/3/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-26 4

Project: Avalanche Journal Battery

Collection Date: 4/13/2022 9:05:00 AM

Lab ID: 2204847-003

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	4/25/2022 5:37:55 PM	67043
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/25/2022 1:39:23 PM	66976
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/25/2022 1:39:23 PM	66976
Surr: DNOP	61.4	51.1-141		%Rec	1	4/25/2022 1:39:23 PM	66976
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/22/2022 2:22:00 AM	66961
Surr: BFB	107	37.7-212		%Rec	1	4/22/2022 2:22:00 AM	66961
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.023		mg/Kg	1	4/22/2022 2:22:00 AM	66961
Toluene	ND	0.047		mg/Kg	1	4/22/2022 2:22:00 AM	66961
Ethylbenzene	ND	0.047		mg/Kg	1	4/22/2022 2:22:00 AM	66961
Xylenes, Total	ND	0.094		mg/Kg	1	4/22/2022 2:22:00 AM	66961
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	4/22/2022 2:22:00 AM	66961

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204847

Date Reported: 5/3/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-27 4'

Project: Avalanche Journal Battery

Collection Date: 4/13/2022 9:10:00 AM

Lab ID: 2204847-004

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	ND	61		mg/Kg	20	4/25/2022 6:14:57 PM	67043
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/25/2022 2:02:59 PM	66976
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/25/2022 2:02:59 PM	66976
Surr: DNOP	65.9	51.1-141		%Rec	1	4/25/2022 2:02:59 PM	66976
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/22/2022 2:42:00 AM	66961
Surr: BFB	103	37.7-212		%Rec	1	4/22/2022 2:42:00 AM	66961
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	4/22/2022 2:42:00 AM	66961
Toluene	ND	0.049		mg/Kg	1	4/22/2022 2:42:00 AM	66961
Ethylbenzene	ND	0.049		mg/Kg	1	4/22/2022 2:42:00 AM	66961
Xylenes, Total	ND	0.099		mg/Kg	1	4/22/2022 2:42:00 AM	66961
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	4/22/2022 2:42:00 AM	66961

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204847

Date Reported: 5/3/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-28 4'

Project: Avalanche Journal Battery

Collection Date: 4/13/2022 9:15:00 AM

Lab ID: 2204847-005

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	4/25/2022 6:27:18 PM	67043
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	4/25/2022 2:26:33 PM	66976
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/25/2022 2:26:33 PM	66976
Surr: DNOP	66.7	51.1-141		%Rec	1	4/25/2022 2:26:33 PM	66976
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/22/2022 3:01:00 AM	66961
Surr: BFB	103	37.7-212		%Rec	1	4/22/2022 3:01:00 AM	66961
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	4/22/2022 3:01:00 AM	66961
Toluene	ND	0.049		mg/Kg	1	4/22/2022 3:01:00 AM	66961
Ethylbenzene	ND	0.049		mg/Kg	1	4/22/2022 3:01:00 AM	66961
Xylenes, Total	ND	0.098		mg/Kg	1	4/22/2022 3:01:00 AM	66961
Surr: 4-Bromofluorobenzene	86.1	70-130		%Rec	1	4/22/2022 3:01:00 AM	66961

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204847

Date Reported: 5/3/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-29 4'

Project: Avalanche Journal Battery

Collection Date: 4/13/2022 9:20:00 AM

Lab ID: 2204847-006

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	240	60		mg/Kg	20	4/25/2022 6:39:39 PM	67043
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/25/2022 2:50:15 PM	66976
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/25/2022 2:50:15 PM	66976
Surr: DNOP	51.4	51.1-141		%Rec	1	4/25/2022 2:50:15 PM	66976
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/22/2022 1:48:21 AM	66961
Surr: BFB	97.2	37.7-212		%Rec	1	4/22/2022 1:48:21 AM	66961
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	4/22/2022 1:48:21 AM	66961
Toluene	ND	0.049		mg/Kg	1	4/22/2022 1:48:21 AM	66961
Ethylbenzene	ND	0.049		mg/Kg	1	4/22/2022 1:48:21 AM	66961
Xylenes, Total	ND	0.098		mg/Kg	1	4/22/2022 1:48:21 AM	66961
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	4/22/2022 1:48:21 AM	66961

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204847

Date Reported: 5/3/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-30 4'

Project: Avalanche Journal Battery

Collection Date: 4/13/2022 9:25:00 AM

Lab ID: 2204847-007

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	4/25/2022 6:52:00 PM	67043
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/25/2022 3:13:46 PM	66976
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/25/2022 3:13:46 PM	66976
Surr: DNOP	67.7	51.1-141		%Rec	1	4/25/2022 3:13:46 PM	66976
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/22/2022 2:11:45 AM	66961
Surr: BFB	96.2	37.7-212		%Rec	1	4/22/2022 2:11:45 AM	66961
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	4/22/2022 2:11:45 AM	66961
Toluene	ND	0.048		mg/Kg	1	4/22/2022 2:11:45 AM	66961
Ethylbenzene	ND	0.048		mg/Kg	1	4/22/2022 2:11:45 AM	66961
Xylenes, Total	ND	0.095		mg/Kg	1	4/22/2022 2:11:45 AM	66961
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	4/22/2022 2:11:45 AM	66961

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204847

Date Reported: 5/3/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-31 4'

Project: Avalanche Journal Battery

Collection Date: 4/13/2022 9:30:00 AM

Lab ID: 2204847-008

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	4/25/2022 7:04:21 PM	67043
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	4/25/2022 3:37:12 PM	66976
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/25/2022 3:37:12 PM	66976
Surr: DNOP	68.1	51.1-141		%Rec	1	4/25/2022 3:37:12 PM	66976
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/22/2022 2:35:14 AM	66961
Surr: BFB	95.5	37.7-212		%Rec	1	4/22/2022 2:35:14 AM	66961
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	4/22/2022 2:35:14 AM	66961
Toluene	ND	0.049		mg/Kg	1	4/22/2022 2:35:14 AM	66961
Ethylbenzene	ND	0.049		mg/Kg	1	4/22/2022 2:35:14 AM	66961
Xylenes, Total	ND	0.098		mg/Kg	1	4/22/2022 2:35:14 AM	66961
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	4/22/2022 2:35:14 AM	66961

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204847

Date Reported: 5/3/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-32 4'

Project: Avalanche Journal Battery

Collection Date: 4/13/2022 9:35:00 AM

Lab ID: 2204847-009

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	1200	60		mg/Kg	20	4/26/2022 1:35:51 AM	67045
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	110	9.2		mg/Kg	1	4/25/2022 4:24:18 PM	66976
Motor Oil Range Organics (MRO)	110	46		mg/Kg	1	4/25/2022 4:24:18 PM	66976
Surr: DNOP	113	51.1-141		%Rec	1	4/25/2022 4:24:18 PM	66976
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/22/2022 2:58:48 AM	66961
Surr: BFB	92.0	37.7-212		%Rec	1	4/22/2022 2:58:48 AM	66961
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/22/2022 2:58:48 AM	66961
Toluene	ND	0.048		mg/Kg	1	4/22/2022 2:58:48 AM	66961
Ethylbenzene	ND	0.048		mg/Kg	1	4/22/2022 2:58:48 AM	66961
Xylenes, Total	ND	0.097		mg/Kg	1	4/22/2022 2:58:48 AM	66961
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	4/22/2022 2:58:48 AM	66961

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204847

Date Reported: 5/3/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-33 4'

Project: Avalanche Journal Battery

Collection Date: 4/13/2022 9:40:00 AM

Lab ID: 2204847-010

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	200	59		mg/Kg	20	4/26/2022 1:48:15 AM	67045
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	39	9.2		mg/Kg	1	4/25/2022 5:11:32 PM	66976
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/25/2022 5:11:32 PM	66976
Surr: DNOP	131	51.1-141		%Rec	1	4/25/2022 5:11:32 PM	66976
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/22/2022 3:22:26 AM	66961
Surr: BFB	90.7	37.7-212		%Rec	1	4/22/2022 3:22:26 AM	66961
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/22/2022 3:22:26 AM	66961
Toluene	ND	0.048		mg/Kg	1	4/22/2022 3:22:26 AM	66961
Ethylbenzene	ND	0.048		mg/Kg	1	4/22/2022 3:22:26 AM	66961
Xylenes, Total	ND	0.095		mg/Kg	1	4/22/2022 3:22:26 AM	66961
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	4/22/2022 3:22:26 AM	66961

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204847

Date Reported: 5/3/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-34 4'

Project: Avalanche Journal Battery

Collection Date: 4/13/2022 9:45:00 AM

Lab ID: 2204847-011

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	3800	150		mg/Kg	50	4/26/2022 1:35:04 PM	67045
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/25/2022 5:35:00 PM	66977
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/25/2022 5:35:00 PM	66977
Surr: DNOP	69.4	51.1-141		%Rec	1	4/25/2022 5:35:00 PM	66977
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/22/2022 12:31:00 PM	66961
Surr: BFB	108	37.7-212		%Rec	1	4/22/2022 12:31:00 PM	66961
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/22/2022 12:31:00 PM	66961
Toluene	ND	0.049		mg/Kg	1	4/22/2022 12:31:00 PM	66961
Ethylbenzene	ND	0.049		mg/Kg	1	4/22/2022 12:31:00 PM	66961
Xylenes, Total	ND	0.097		mg/Kg	1	4/22/2022 12:31:00 PM	66961
Surr: 4-Bromofluorobenzene	86.4	70-130		%Rec	1	4/22/2022 12:31:00 PM	66961

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204847

Date Reported: 5/3/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-35 4'

Project: Avalanche Journal Battery

Collection Date: 4/13/2022 9:50:00 AM

Lab ID: 2204847-012

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	1500	60		mg/Kg	20	4/26/2022 2:13:04 AM	67045
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/25/2022 5:58:37 PM	66977
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/25/2022 5:58:37 PM	66977
Surr: DNOP	70.7	51.1-141		%Rec	1	4/25/2022 5:58:37 PM	66977
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/22/2022 12:50:00 PM	66961
Surr: BFB	104	37.7-212		%Rec	1	4/22/2022 12:50:00 PM	66961
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/22/2022 12:50:00 PM	66961
Toluene	ND	0.048		mg/Kg	1	4/22/2022 12:50:00 PM	66961
Ethylbenzene	ND	0.048		mg/Kg	1	4/22/2022 12:50:00 PM	66961
Xylenes, Total	ND	0.096		mg/Kg	1	4/22/2022 12:50:00 PM	66961
Surr: 4-Bromofluorobenzene	83.2	70-130		%Rec	1	4/22/2022 12:50:00 PM	66961

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204847

Date Reported: 5/3/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-36 4'

Project: Avalanche Journal Battery

Collection Date: 4/13/2022 9:55:00 AM

Lab ID: 2204847-013

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	3100	150		mg/Kg	50	4/26/2022 1:47:25 PM	67045
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	41	9.4		mg/Kg	1	4/25/2022 6:22:08 PM	66977
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/25/2022 6:22:08 PM	66977
Surr: DNOP	127	51.1-141		%Rec	1	4/25/2022 6:22:08 PM	66977
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/22/2022 1:10:00 PM	66961
Surr: BFB	98.6	37.7-212		%Rec	1	4/22/2022 1:10:00 PM	66961
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/22/2022 1:10:00 PM	66961
Toluene	ND	0.047		mg/Kg	1	4/22/2022 1:10:00 PM	66961
Ethylbenzene	ND	0.047		mg/Kg	1	4/22/2022 1:10:00 PM	66961
Xylenes, Total	ND	0.094		mg/Kg	1	4/22/2022 1:10:00 PM	66961
Surr: 4-Bromofluorobenzene	81.7	70-130		%Rec	1	4/22/2022 1:10:00 PM	66961

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204847

Date Reported: 5/3/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-37 4'

Project: Avalanche Journal Battery

Collection Date: 4/13/2022 10:05:00 AM

Lab ID: 2204847-014

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	270	61		mg/Kg	20	4/26/2022 2:37:54 AM	67045
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	33	10		mg/Kg	1	4/25/2022 7:09:10 PM	66977
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/25/2022 7:09:10 PM	66977
Surr: DNOP	108	51.1-141		%Rec	1	4/25/2022 7:09:10 PM	66977
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/21/2022 12:54:00 PM	66963
Surr: BFB	115	37.7-212		%Rec	1	4/21/2022 12:54:00 PM	66963
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/21/2022 12:54:00 PM	66963
Toluene	ND	0.050		mg/Kg	1	4/21/2022 12:54:00 PM	66963
Ethylbenzene	ND	0.050		mg/Kg	1	4/21/2022 12:54:00 PM	66963
Xylenes, Total	ND	0.099		mg/Kg	1	4/21/2022 12:54:00 PM	66963
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	4/21/2022 12:54:00 PM	66963

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204847

Date Reported: 5/3/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-38 5'

Project: Avalanche Journal Battery

Collection Date: 4/13/2022 10:10:00 AM

Lab ID: 2204847-015

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	3600	150		mg/Kg	50	4/26/2022 1:59:46 PM	67045
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/25/2022 7:32:43 PM	66977
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/25/2022 7:32:43 PM	66977
Surr: DNOP	100	51.1-141		%Rec	1	4/25/2022 7:32:43 PM	66977
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/21/2022 1:53:00 PM	66963
Surr: BFB	105	37.7-212		%Rec	1	4/21/2022 1:53:00 PM	66963
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/21/2022 1:53:00 PM	66963
Toluene	ND	0.049		mg/Kg	1	4/21/2022 1:53:00 PM	66963
Ethylbenzene	ND	0.049		mg/Kg	1	4/21/2022 1:53:00 PM	66963
Xylenes, Total	ND	0.098		mg/Kg	1	4/21/2022 1:53:00 PM	66963
Surr: 4-Bromofluorobenzene	84.9	70-130		%Rec	1	4/21/2022 1:53:00 PM	66963

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204847

Date Reported: 5/3/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-39 4'

Project: Avalanche Journal Battery

Collection Date: 4/13/2022 10:15:00 AM

Lab ID: 2204847-016

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	2000	60		mg/Kg	20	4/26/2022 1:14:43 AM	67054
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/25/2022 7:56:22 PM	66977
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/25/2022 7:56:22 PM	66977
Surr: DNOP	74.0	51.1-141		%Rec	1	4/25/2022 7:56:22 PM	66977
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/21/2022 2:13:00 PM	66963
Surr: BFB	107	37.7-212		%Rec	1	4/21/2022 2:13:00 PM	66963
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	4/21/2022 2:13:00 PM	66963
Toluene	ND	0.049		mg/Kg	1	4/21/2022 2:13:00 PM	66963
Ethylbenzene	ND	0.049		mg/Kg	1	4/21/2022 2:13:00 PM	66963
Xylenes, Total	ND	0.098		mg/Kg	1	4/21/2022 2:13:00 PM	66963
Surr: 4-Bromofluorobenzene	88.1	70-130		%Rec	1	4/21/2022 2:13:00 PM	66963

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204847

Date Reported: 5/3/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-43 5'

Project: Avalanche Journal Battery

Collection Date: 4/13/2022 10:35:00 AM

Lab ID: 2204847-017

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	1700	60		mg/Kg	20	4/26/2022 1:39:25 AM	67054
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	450	49		mg/Kg	5	4/25/2022 8:19:52 PM	66977
Motor Oil Range Organics (MRO)	300	250		mg/Kg	5	4/25/2022 8:19:52 PM	66977
Surr: DNOP	87.0	51.1-141		%Rec	5	4/25/2022 8:19:52 PM	66977
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	4/21/2022 2:32:00 PM	66963
Surr: BFB	103	37.7-212		%Rec	5	4/21/2022 2:32:00 PM	66963
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.12		mg/Kg	5	4/21/2022 2:32:00 PM	66963
Toluene	ND	0.25		mg/Kg	5	4/21/2022 2:32:00 PM	66963
Ethylbenzene	ND	0.25		mg/Kg	5	4/21/2022 2:32:00 PM	66963
Xylenes, Total	ND	0.50		mg/Kg	5	4/21/2022 2:32:00 PM	66963
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	5	4/21/2022 2:32:00 PM	66963

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2204847

Date Reported: 5/3/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-44 5'

Project: Avalanche Journal Battery

Collection Date: 4/13/2022 10:40:00 AM

Lab ID: 2204847-018

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	4400	150		mg/Kg	50	4/26/2022 12:45:40 PM	67054
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/25/2022 8:43:24 PM	66977
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/25/2022 8:43:24 PM	66977
Surr: DNOP	105	51.1-141		%Rec	1	4/25/2022 8:43:24 PM	66977
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/21/2022 2:52:00 PM	66963
Surr: BFB	108	37.7-212		%Rec	1	4/21/2022 2:52:00 PM	66963
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/21/2022 2:52:00 PM	66963
Toluene	ND	0.048		mg/Kg	1	4/21/2022 2:52:00 PM	66963
Ethylbenzene	ND	0.048		mg/Kg	1	4/21/2022 2:52:00 PM	66963
Xylenes, Total	ND	0.097		mg/Kg	1	4/21/2022 2:52:00 PM	66963
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	1	4/21/2022 2:52:00 PM	66963

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 18 of 22

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

WO#: 2204847

03-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>MB-67045</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67045</b>	RunNo: <b>87487</b>								
Prep Date: <b>4/25/2022</b>	Analysis Date: <b>4/25/2022</b>	SeqNo: <b>3096004</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-67045</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67045</b>	RunNo: <b>87487</b>								
Prep Date: <b>4/25/2022</b>	Analysis Date: <b>4/25/2022</b>	SeqNo: <b>3096005</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.0	90	110			

Sample ID: <b>MB-67043</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67043</b>	RunNo: <b>87477</b>								
Prep Date: <b>4/25/2022</b>	Analysis Date: <b>4/25/2022</b>	SeqNo: <b>3096784</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-67043</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67043</b>	RunNo: <b>87477</b>								
Prep Date: <b>4/25/2022</b>	Analysis Date: <b>4/25/2022</b>	SeqNo: <b>3096785</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			

Sample ID: <b>MB-67054</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67054</b>	RunNo: <b>87477</b>								
Prep Date: <b>4/25/2022</b>	Analysis Date: <b>4/25/2022</b>	SeqNo: <b>3096816</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-67054</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67054</b>	RunNo: <b>87477</b>								
Prep Date: <b>4/25/2022</b>	Analysis Date: <b>4/25/2022</b>	SeqNo: <b>3096817</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.3	90	110			

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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

WO#: 2204847

03-May-22

**Client:** EOG  
**Project:** Avalanche Journal Battery

Sample ID: <b>MB-66977</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66977</b>	RunNo: <b>87468</b>								
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/24/2022</b>	SeqNo: <b>3095127</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		117	51.1	141			

Sample ID: <b>LCS-66977</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66977</b>	RunNo: <b>87468</b>								
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/24/2022</b>	SeqNo: <b>3095128</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	106	68.9	135			
Surr: DNOP	4.6		5.000		91.3	51.1	141			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204847

03-May-22

**Client:** EOG  
**Project:** Avalanche Journal Battery

Sample ID: <b>lcs-66963</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>66963</b>		RunNo: <b>87430</b>							
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>		SeqNo: <b>3093125</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	72.3	137			
Surr: BFB	2200		1000		225	37.7	212			S

Sample ID: <b>mb-66963</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>66963</b>		RunNo: <b>87430</b>							
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>		SeqNo: <b>3093126</b>		Units: <b>mg/Kg</b>					
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		104	37.7	212			

Sample ID: <b>lcs-66961</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>66961</b>		RunNo: <b>87430</b>							
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>		SeqNo: <b>3093143</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	72.3	137			
Surr: BFB	2200		1000		222	37.7	212			S

Sample ID: <b>mb-66961</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>66961</b>		RunNo: <b>87430</b>							
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>		SeqNo: <b>3093144</b>		Units: <b>mg/Kg</b>					
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		102	37.7	212			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204847

03-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>Ics-66961</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66961</b>			RunNo: <b>87430</b>						
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>			SeqNo: <b>3093183</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	82.7	80	120			
Toluene	0.85	0.050	1.000	0	84.6	80	120			
Ethylbenzene	0.86	0.050	1.000	0	85.9	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.4	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.0	70	130			

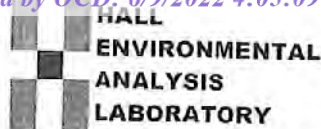
Sample ID: <b>mb-66961</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66961</b>			RunNo: <b>87430</b>						
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>			SeqNo: <b>3093184</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	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		83.4	70	130			

Sample ID: <b>Ics-66963</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66963</b>			RunNo: <b>87447</b>						
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/22/2022</b>			SeqNo: <b>3093856</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.3	80	120			
Toluene	0.90	0.050	1.000	0	90.2	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.4	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.2	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		85.9	70	130			

Sample ID: <b>mb-66963</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66963</b>			RunNo: <b>87447</b>						
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/22/2022</b>			SeqNo: <b>3093857</b>		Units: <b>mg/Kg</b>				
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		86.6	70	130			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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: 2204847

RcptNo: 1

Received By: Tracy Casarrubias

4/20/2022 7:40:00 AM

Completed By: Tracy Casarrubias

4/20/2022 8:57:04 AM

Reviewed By: *[Signature]* 4-20-22Chain of Custody1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐2. How was the sample delivered? CourierLog In3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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:

(&lt;2 or &gt;12 unless noted)

Adjusted?

Checked by *Cue* 4/20/22Special 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.3	Good	Yes			
2	3.4	Good	Yes			



## Chain-of-Custody Record

Client: EOG / Chase Seftle

Project Name: Atalapha Journal Battery

Project #: 22E-00347

Project Standard: ☒ Standard ☐ Rush 5 Day

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush 5 Day

Project #:

22E-00347

Project Manager:

Mike Moffitt

Sampler:

On Ice: ☒ Yes ☐ No

# of Coolers: 2

Cooler Temp (including CF): 5.2 to 1 = 5.3 (°C)Cooler Temp (including CF): 3.5 to 0.1 = 3.4 (°C)

Container Type and #

Preservative Type

HEAL No.

2204847

1 Jar

001

1 Jar

002

1 Jar

003

1 Jar

004

1 Jar

005

1 Jar

006

1 Jar

007

1 Jar

008

1 Jar

009

1 Jar

010

1 Jar

011

1 Jar

012

1 Jar

012

1 Jar

012

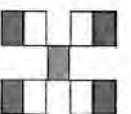
1 Jar

012

1 Jar

012

Remarks:



**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<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)



# Chain-of-Custody Record

Client: EOC / Chase Spill  
 Mailing Address: \_\_\_\_\_

Phone #: \_\_\_\_\_

email or Fax#: \_\_\_\_\_

QA/QC Package: \_\_\_\_\_

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other \_\_\_\_\_

☐ EDD (Type) \_\_\_\_\_

Turn-Around Time: \_\_\_\_\_

☒ Standard ☒ Rush 5 Day

Project Name: Arroyo de Journal Battery

Project #: 22E-00847

Project Manager: \_\_\_\_\_

Mike Moffatt

Sampler: L. Pullman

On Ice: ☒ Yes ☐ No

# of Coolers: 2

Cooler Temp (including C/F): 5.2 to 1.5 (°C)

Container Type and # 1 Jar Preservative Type 33 HEAL No. 2204847

1 Jar 013

1 Jar 014

1 Jar 015

1 Jar 014

1 Jar 013

1 Jar 013

1 Jar 013

1 Jar 013

1 Jar 013

1 Jar 013

1 Jar 013

1 Jar 013

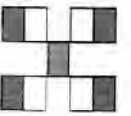
1 Jar 013

1 Jar 013

1 Jar 013

1 Jar 013

1 Jar 013



**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<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>  
 8260 (VOA)  
 8270 (Semi-VOA)  
 Total Coliform (Present/Absent)

Remarks: \_\_\_\_\_

Received by: \_\_\_\_\_

Via: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Date: 4/19/22

Time: 9:00

Date: 4/20/22

Time: 7:40

Received by: \_\_\_\_\_

Via: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Relinquished by: John Pullman

Time: 08:50

Date: 4/19/22

Time: 19:00

Date: \_\_\_\_\_

Time: \_\_\_\_\_

Date: \_\_\_\_\_

Time: \_\_\_\_\_

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  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

May 02, 2022

Mike Moffitt

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX

RE: Avalanche Journal Battery

OrderNo.: 2204849

Dear Mike Moffitt:

Hall Environmental Analysis Laboratory received 8 sample(s) on 4/20/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2204849

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-13 10'

Project: Avalanche Journal Battery

Collection Date: 4/14/2022 11:30:00 AM

Lab ID: 2204849-001

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	3800	150		mg/Kg	50	4/27/2022 9:04:55 AM	67058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/25/2022 1:31:19 PM	67013
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/25/2022 1:31:19 PM	67013
Surr: DNOP	86.9	51.1-141		%Rec	1	4/25/2022 1:31:19 PM	67013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/22/2022 10:21:00 PM	66988
Surr: BFB	109	37.7-212		%Rec	1	4/22/2022 10:21:00 PM	66988
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/22/2022 10:21:00 PM	66988
Toluene	ND	0.049		mg/Kg	1	4/22/2022 10:21:00 PM	66988
Ethylbenzene	ND	0.049		mg/Kg	1	4/22/2022 10:21:00 PM	66988
Xylenes, Total	ND	0.097		mg/Kg	1	4/22/2022 10:21:00 PM	66988
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	4/22/2022 10:21:00 PM	66988

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204849

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-14 10'

Project: Avalanche Journal Battery

Collection Date: 4/14/2022 11:30:00 AM

Lab ID: 2204849-002

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	4900	150		mg/Kg	50	4/27/2022 9:17:16 AM	67058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/25/2022 1:55:17 PM	67013
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/25/2022 1:55:17 PM	67013
Surr: DNOP	87.3	51.1-141		%Rec	1	4/25/2022 1:55:17 PM	67013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/22/2022 10:41:00 PM	66988
Surr: BFB	101	37.7-212		%Rec	1	4/22/2022 10:41:00 PM	66988
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/22/2022 10:41:00 PM	66988
Toluene	ND	0.046		mg/Kg	1	4/22/2022 10:41:00 PM	66988
Ethylbenzene	ND	0.046		mg/Kg	1	4/22/2022 10:41:00 PM	66988
Xylenes, Total	ND	0.092		mg/Kg	1	4/22/2022 10:41:00 PM	66988
Surr: 4-Bromofluorobenzene	85.3	70-130		%Rec	1	4/22/2022 10:41:00 PM	66988

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204849

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-29 0-10'

Project: Avalanche Journal Battery

Collection Date: 4/14/2022 11:35:00 AM

Lab ID: 2204849-003

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	3900	150		mg/Kg	50	4/27/2022 9:29:37 AM	67058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/25/2022 2:19:35 PM	67013
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/25/2022 2:19:35 PM	67013
Surr: DNOP	83.2	51.1-141		%Rec	1	4/25/2022 2:19:35 PM	67013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/22/2022 11:00:00 PM	66988
Surr: BFB	109	37.7-212		%Rec	1	4/22/2022 11:00:00 PM	66988
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/22/2022 11:00:00 PM	66988
Toluene	ND	0.047		mg/Kg	1	4/22/2022 11:00:00 PM	66988
Ethylbenzene	ND	0.047		mg/Kg	1	4/22/2022 11:00:00 PM	66988
Xylenes, Total	ND	0.095		mg/Kg	1	4/22/2022 11:00:00 PM	66988
Surr: 4-Bromofluorobenzene	88.7	70-130		%Rec	1	4/22/2022 11:00:00 PM	66988

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2204849

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-30 0-10'

Project: Avalanche Journal Battery

Collection Date: 4/14/2022 11:35:00 AM

Lab ID: 2204849-004

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	3900	150		mg/Kg	50	4/27/2022 9:41:57 AM	67058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/25/2022 2:43:41 PM	67013
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/25/2022 2:43:41 PM	67013
Surr: DNOP	85.3	51.1-141		%Rec	1	4/25/2022 2:43:41 PM	67013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/22/2022 11:20:00 PM	66988
Surr: BFB	107	37.7-212		%Rec	1	4/22/2022 11:20:00 PM	66988
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/22/2022 11:20:00 PM	66988
Toluene	ND	0.047		mg/Kg	1	4/22/2022 11:20:00 PM	66988
Ethylbenzene	ND	0.047		mg/Kg	1	4/22/2022 11:20:00 PM	66988
Xylenes, Total	ND	0.095		mg/Kg	1	4/22/2022 11:20:00 PM	66988
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	4/22/2022 11:20:00 PM	66988

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204849

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-31 0-10'

Project: Avalanche Journal Battery

Collection Date: 4/14/2022 11:40:00 AM

Lab ID: 2204849-005

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	5000	300		mg/Kg	100	4/27/2022 9:54:19 AM	67067
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	21	9.5		mg/Kg	1	4/25/2022 3:08:00 PM	67013
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/25/2022 3:08:00 PM	67013
Surr: DNOP	92.8	51.1-141		%Rec	1	4/25/2022 3:08:00 PM	67013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/23/2022 12:19:00 AM	66988
Surr: BFB	104	37.7-212		%Rec	1	4/23/2022 12:19:00 AM	66988
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/23/2022 12:19:00 AM	66988
Toluene	ND	0.047		mg/Kg	1	4/23/2022 12:19:00 AM	66988
Ethylbenzene	ND	0.047		mg/Kg	1	4/23/2022 12:19:00 AM	66988
Xylenes, Total	ND	0.094		mg/Kg	1	4/23/2022 12:19:00 AM	66988
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	4/23/2022 12:19:00 AM	66988

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		



## Analytical Report

Lab Order 2204849

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-32 0-10'

Project: Avalanche Journal Battery

Collection Date: 4/14/2022 11:40:00 AM

Lab ID: 2204849-006

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	6100	300		mg/Kg	100	4/27/2022 10:06:39 AM	67067
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/25/2022 3:32:21 PM	67013
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/25/2022 3:32:21 PM	67013
Surr: DNOP	92.9	51.1-141		%Rec	1	4/25/2022 3:32:21 PM	67013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/23/2022 12:39:00 AM	66988
Surr: BFB	104	37.7-212		%Rec	1	4/23/2022 12:39:00 AM	66988
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/23/2022 12:39:00 AM	66988
Toluene	ND	0.049		mg/Kg	1	4/23/2022 12:39:00 AM	66988
Ethylbenzene	ND	0.049		mg/Kg	1	4/23/2022 12:39:00 AM	66988
Xylenes, Total	ND	0.097		mg/Kg	1	4/23/2022 12:39:00 AM	66988
Surr: 4-Bromofluorobenzene	85.1	70-130		%Rec	1	4/23/2022 12:39:00 AM	66988

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204849

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-40 7'

Project: Avalanche Journal Battery

Collection Date: 4/14/2022 1:45:00 PM

Lab ID: 2204849-007

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	6100	300		mg/Kg	100	4/27/2022 10:19:00 AM	67067
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/25/2022 3:56:34 PM	67013
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/25/2022 3:56:34 PM	67013
Surr: DNOP	90.7	51.1-141		%Rec	1	4/25/2022 3:56:34 PM	67013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/23/2022 12:59:00 AM	66988
Surr: BFB	103	37.7-212		%Rec	1	4/23/2022 12:59:00 AM	66988
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/23/2022 12:59:00 AM	66988
Toluene	ND	0.049		mg/Kg	1	4/23/2022 12:59:00 AM	66988
Ethylbenzene	ND	0.049		mg/Kg	1	4/23/2022 12:59:00 AM	66988
Xylenes, Total	ND	0.098		mg/Kg	1	4/23/2022 12:59:00 AM	66988
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	4/23/2022 12:59:00 AM	66988

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204849

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-45 7'

Project: Avalanche Journal Battery

Collection Date: 4/14/2022 1:45:00 PM

Lab ID: 2204849-008

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	7400	300		mg/Kg	100	4/27/2022 10:31:20 AM	67067
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/25/2022 4:20:50 PM	67013
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/25/2022 4:20:50 PM	67013
Surr: DNOP	91.4	51.1-141		%Rec	1	4/25/2022 4:20:50 PM	67013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/23/2022 1:18:00 AM	66988
Surr: BFB	104	37.7-212		%Rec	1	4/23/2022 1:18:00 AM	66988
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/23/2022 1:18:00 AM	66988
Toluene	ND	0.047		mg/Kg	1	4/23/2022 1:18:00 AM	66988
Ethylbenzene	ND	0.047		mg/Kg	1	4/23/2022 1:18:00 AM	66988
Xylenes, Total	ND	0.095		mg/Kg	1	4/23/2022 1:18:00 AM	66988
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	1	4/23/2022 1:18:00 AM	66988

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204849

02-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>MB-67058</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67058</b>	RunNo: <b>87512</b>								
Prep Date: <b>4/25/2022</b>	Analysis Date: <b>4/26/2022</b>	SeqNo: <b>3097677</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-67058</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67058</b>	RunNo: <b>87512</b>								
Prep Date: <b>4/25/2022</b>	Analysis Date: <b>4/26/2022</b>	SeqNo: <b>3097680</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.2	90	110			

Sample ID: <b>MB-67067</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67067</b>	RunNo: <b>87540</b>								
Prep Date: <b>4/26/2022</b>	Analysis Date: <b>4/26/2022</b>	SeqNo: <b>3098355</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-67067</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67067</b>	RunNo: <b>87540</b>								
Prep Date: <b>4/26/2022</b>	Analysis Date: <b>4/26/2022</b>	SeqNo: <b>3098356</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.0	90	110			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204849

02-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>LCS-67013</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>67013</b>			RunNo: <b>87499</b>						
Prep Date: <b>4/22/2022</b>	Analysis Date: <b>4/25/2022</b>			SeqNo: <b>3096434</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.4	68.9	135			
Surr: DNOP	3.9		5.000		78.5	51.1	141			

Sample ID: <b>MB-67013</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>67013</b>			RunNo: <b>87499</b>						
Prep Date: <b>4/22/2022</b>	Analysis Date: <b>4/25/2022</b>			SeqNo: <b>3096436</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		88.2	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 Quantitative 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#: 2204849

02-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>lcs-66988</b>	SampType: <b>LCS</b>				TestCode: <b>EPA Method 8015D: Gasoline Range</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>66988</b>				RunNo: <b>87447</b>					
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/22/2022</b>				SeqNo: <b>3094892</b>	Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	117	72.3	137			
Surr: BFB	2300		1000		230	37.7	212			S

Sample ID: <b>mb-66988</b>	SampType: <b>MBLK</b>				TestCode: <b>EPA Method 8015D: Gasoline Range</b>					
Client ID: <b>PBS</b>	Batch ID: <b>66988</b>				RunNo: <b>87447</b>					
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/22/2022</b>				SeqNo: <b>3094893</b>	Units: <b>mg/Kg</b>				
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		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 Quantitative 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#: 2204849

02-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

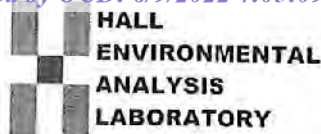
Sample ID: <b>lcs-66988</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66988</b>			RunNo: <b>87447</b>						
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/22/2022</b>			SeqNo: <b>3094957</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.2	80	120			
Toluene	0.88	0.050	1.000	0	87.9	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.3	80	120			
Xylenes, Total	2.6	0.10	3.000	0	88.0	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		86.5	70	130			

Sample ID: <b>mb-66988</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66988</b>			RunNo: <b>87447</b>						
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/22/2022</b>			SeqNo: <b>3094958</b>		Units: <b>mg/Kg</b>				
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			

**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 Quantitative 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  
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: 2204849

RcptNo: 1

Received By: Tracy Casarrubias 4/20/2022 7:40:00 AM

Completed By: Tracy Casarrubias 4/20/2022 9:33:35 AM

Reviewed By: *[Signature]* 4-20-22Chain 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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: *Cme 4/20/22*

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.3	Good	Yes			
2	3.4	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:
Client: EDC / Chase Seattle		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush    5 Day
Mailing Address:	Project Name: Atlantic Journal Gallery	
	Project #: 22E-00347	
Phone #:		

Turn-Around Time:	<input checked="" type="checkbox"/> Standard	<input checked="" type="checkbox"/> Rush	5 Day
Project Name:	Atlanche Journal Battery		
Project #:	22E-00247		

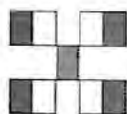
Client:	EDG / Chase Sells
Mailing Address:	
Phone #:	

Project Manager:	
Sampler:	
On Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
# of Coolers:	7

email or Fax#:	
QA/QC Package:	<input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)
Accreditation:	<input type="checkbox"/> Az Compliance <input type="checkbox"/> NELAC <input type="checkbox"/> Other _____
<input type="checkbox"/> EDD (Type)	

[illegible]

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time	F
4-18-22	08:58	John Williams	Admiral		4/19/22		
4/19/22	1900	Admiral	Admiral		4/20/22	7:40	



**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

[illegible]

Remarks: \* Added samples per Erin C. - DAO 420.22





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

May 02, 2022

Mike Moffitt

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX

RE: Avalanche Journal Battery

OrderNo.: 2204848

Dear Mike Moffitt:

Hall Environmental Analysis Laboratory received 16 sample(s) on 4/20/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2204848

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-46 7'

Project: Avalanche Journal Battery

Collection Date: 4/15/2022 8:50:00 AM

Lab ID: 2204848-001

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	6800	300		mg/Kg	100	4/27/2022 10:43:41 AM	67058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/25/2022 9:07:14 PM	66977
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/25/2022 9:07:14 PM	66977
Surr: DNOP	116	51.1-141		%Rec	1	4/25/2022 9:07:14 PM	66977
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/21/2022 3:12:00 PM	66963
Surr: BFB	101	37.7-212		%Rec	1	4/21/2022 3:12:00 PM	66963
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/21/2022 3:12:00 PM	66963
Toluene	ND	0.048		mg/Kg	1	4/21/2022 3:12:00 PM	66963
Ethylbenzene	ND	0.048		mg/Kg	1	4/21/2022 3:12:00 PM	66963
Xylenes, Total	ND	0.097		mg/Kg	1	4/21/2022 3:12:00 PM	66963
Surr: 4-Bromofluorobenzene	83.3	70-130		%Rec	1	4/21/2022 3:12:00 PM	66963

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 1 of 20

## Analytical Report

Lab Order 2204848

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-33 5-7'

Project: Avalanche Journal Battery

Collection Date: 4/15/2022 8:55:00 AM

Lab ID: 2204848-002

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	5800	300		mg/Kg	100	4/27/2022 10:56:01 AM	67058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/25/2022 9:30:47 PM	66977
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/25/2022 9:30:47 PM	66977
Surr: DNOP	84.4	51.1-141		%Rec	1	4/25/2022 9:30:47 PM	66977
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/21/2022 3:32:00 PM	66963
Surr: BFB	102	37.7-212		%Rec	1	4/21/2022 3:32:00 PM	66963
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/21/2022 3:32:00 PM	66963
Toluene	ND	0.046		mg/Kg	1	4/21/2022 3:32:00 PM	66963
Ethylbenzene	ND	0.046		mg/Kg	1	4/21/2022 3:32:00 PM	66963
Xylenes, Total	ND	0.093		mg/Kg	1	4/21/2022 3:32:00 PM	66963
Surr: 4-Bromofluorobenzene	83.3	70-130		%Rec	1	4/21/2022 3:32:00 PM	66963

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204848

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-34 4-7'

Project: Avalanche Journal Battery

Collection Date: 4/15/2022 8:55:00 AM

Lab ID: 2204848-003

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	5300	300		mg/Kg	100	4/27/2022 11:33:03 AM	67058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/25/2022 9:54:17 PM	66977
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/25/2022 9:54:17 PM	66977
Surr: DNOP	95.4	51.1-141		%Rec	1	4/25/2022 9:54:17 PM	66977
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/21/2022 3:51:00 PM	66963
Surr: BFB	100	37.7-212		%Rec	1	4/21/2022 3:51:00 PM	66963
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/21/2022 3:51:00 PM	66963
Toluene	ND	0.049		mg/Kg	1	4/21/2022 3:51:00 PM	66963
Ethylbenzene	ND	0.049		mg/Kg	1	4/21/2022 3:51:00 PM	66963
Xylenes, Total	ND	0.098		mg/Kg	1	4/21/2022 3:51:00 PM	66963
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	4/21/2022 3:51:00 PM	66963

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204848

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-47 4'

Project: Avalanche Journal Battery

Collection Date: 4/15/2022 9:30:00 AM

Lab ID: 2204848-004

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	7500	300		mg/Kg	100	4/27/2022 11:45:24 AM	67058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/25/2022 10:18:00 PM	66977
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/25/2022 10:18:00 PM	66977
Surr: DNOP	85.4	51.1-141		%Rec	1	4/25/2022 10:18:00 PM	66977
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/21/2022 4:11:00 PM	66963
Surr: BFB	105	37.7-212		%Rec	1	4/21/2022 4:11:00 PM	66963
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/21/2022 4:11:00 PM	66963
Toluene	ND	0.049		mg/Kg	1	4/21/2022 4:11:00 PM	66963
Ethylbenzene	ND	0.049		mg/Kg	1	4/21/2022 4:11:00 PM	66963
Xylenes, Total	ND	0.097		mg/Kg	1	4/21/2022 4:11:00 PM	66963
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	4/21/2022 4:11:00 PM	66963

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204848

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-35 5-7'

Project: Avalanche Journal Battery

Collection Date: 4/15/2022 9:30:00 AM

Lab ID: 2204848-005

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	5300	150		mg/Kg	50	4/27/2022 11:57:45 AM	67058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/25/2022 10:41:32 PM	66977
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/25/2022 10:41:32 PM	66977
Surr: DNOP	92.0	51.1-141		%Rec	1	4/25/2022 10:41:32 PM	66977
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/21/2022 4:31:00 PM	66963
Surr: BFB	103	37.7-212		%Rec	1	4/21/2022 4:31:00 PM	66963
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/21/2022 4:31:00 PM	66963
Toluene	ND	0.050		mg/Kg	1	4/21/2022 4:31:00 PM	66963
Ethylbenzene	ND	0.050		mg/Kg	1	4/21/2022 4:31:00 PM	66963
Xylenes, Total	ND	0.099		mg/Kg	1	4/21/2022 4:31:00 PM	66963
Surr: 4-Bromofluorobenzene	83.8	70-130		%Rec	1	4/21/2022 4:31:00 PM	66963

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204848

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-36 4-10'

Project: Avalanche Journal Battery

Collection Date: 4/15/2022 9:30:00 AM

Lab ID: 2204848-006

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	5000	150		mg/Kg	50	4/27/2022 12:10:05 PM	67058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	860	48		mg/Kg	5	4/26/2022 11:29:34 AM	66977
Motor Oil Range Organics (MRO)	540	240		mg/Kg	5	4/26/2022 11:29:34 AM	66977
Surr: DNOP	119	51.1-141		%Rec	5	4/26/2022 11:29:34 AM	66977
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/21/2022 6:49:00 PM	66963
Surr: BFB	104	37.7-212		%Rec	1	4/21/2022 6:49:00 PM	66963
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/21/2022 6:49:00 PM	66963
Toluene	ND	0.047		mg/Kg	1	4/21/2022 6:49:00 PM	66963
Ethylbenzene	ND	0.047		mg/Kg	1	4/21/2022 6:49:00 PM	66963
Xylenes, Total	ND	0.094		mg/Kg	1	4/21/2022 6:49:00 PM	66963
Surr: 4-Bromofluorobenzene	83.4	70-130		%Rec	1	4/21/2022 6:49:00 PM	66963

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204848

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-37 5-10'

Project: Avalanche Journal Battery

Collection Date: 4/15/2022 9:35:00 AM

Lab ID: 2204848-007

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	5400	150		mg/Kg	50	4/27/2022 12:22:25 PM	67058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/25/2022 11:28:54 PM	66977
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/25/2022 11:28:54 PM	66977
Surr: DNOP	82.2	51.1-141		%Rec	1	4/25/2022 11:28:54 PM	66977
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/21/2022 7:08:00 PM	66963
Surr: BFB	101	37.7-212		%Rec	1	4/21/2022 7:08:00 PM	66963
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/21/2022 7:08:00 PM	66963
Toluene	ND	0.049		mg/Kg	1	4/21/2022 7:08:00 PM	66963
Ethylbenzene	ND	0.049		mg/Kg	1	4/21/2022 7:08:00 PM	66963
Xylenes, Total	ND	0.098		mg/Kg	1	4/21/2022 7:08:00 PM	66963
Surr: 4-Bromofluorobenzene	84.7	70-130		%Rec	1	4/21/2022 7:08:00 PM	66963

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204848

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-41 10'

Project: Avalanche Journal Battery

Collection Date: 4/15/2022 10:30:00 AM

Lab ID: 2204848-008

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	6900	300		mg/Kg	100	4/27/2022 12:34:45 PM	67058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	7600	200		mg/Kg	20	4/25/2022 11:52:39 PM	66977
Motor Oil Range Organics (MRO)	2900	1000		mg/Kg	20	4/25/2022 11:52:39 PM	66977
Surr: DNOP	0	51.1-141	S	%Rec	20	4/25/2022 11:52:39 PM	66977
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	270	25		mg/Kg	5	4/21/2022 7:28:00 PM	66963
Surr: BFB	400	37.7-212	S	%Rec	5	4/21/2022 7:28:00 PM	66963
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	4/21/2022 7:28:00 PM	66963
Toluene	ND	0.25		mg/Kg	5	4/21/2022 7:28:00 PM	66963
Ethylbenzene	3.9	0.25		mg/Kg	5	4/21/2022 7:28:00 PM	66963
Xylenes, Total	12	0.49		mg/Kg	5	4/21/2022 7:28:00 PM	66963
Surr: 4-Bromofluorobenzene	184	70-130	S	%Rec	5	4/21/2022 7:28:00 PM	66963

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204848

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-42 10'

Project: Avalanche Journal Battery

Collection Date: 4/15/2022 10:30:00 AM

Lab ID: 2204848-009

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	7400	300		mg/Kg	100	4/27/2022 12:47:06 PM	67058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	1400	94		mg/Kg	10	4/26/2022 12:16:15 AM	66977
Motor Oil Range Organics (MRO)	520	470		mg/Kg	10	4/26/2022 12:16:15 AM	66977
Surr: DNOP	0	51.1-141	S	%Rec	10	4/26/2022 12:16:15 AM	66977
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	32	23		mg/Kg	5	4/21/2022 7:48:00 PM	66963
Surr: BFB	177	37.7-212		%Rec	5	4/21/2022 7:48:00 PM	66963
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	4/21/2022 7:48:00 PM	66963
Toluene	ND	0.23		mg/Kg	5	4/21/2022 7:48:00 PM	66963
Ethylbenzene	ND	0.23		mg/Kg	5	4/21/2022 7:48:00 PM	66963
Xylenes, Total	0.69	0.47		mg/Kg	5	4/21/2022 7:48:00 PM	66963
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	5	4/21/2022 7:48:00 PM	66963

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204848

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-48 10'

Project: Avalanche Journal Battery

Collection Date: 4/15/2022 10:35:00 AM

Lab ID: 2204848-010

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	2100	60		mg/Kg	20	4/26/2022 6:06:40 PM	67058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	9.9	9.5		mg/Kg	1	4/26/2022 12:39:46 AM	66977
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/26/2022 12:39:46 AM	66977
Surr: DNOP	94.5	51.1-141		%Rec	1	4/26/2022 12:39:46 AM	66977
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/21/2022 8:07:00 PM	66963
Surr: BFB	105	37.7-212		%Rec	1	4/21/2022 8:07:00 PM	66963
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/21/2022 8:07:00 PM	66963
Toluene	ND	0.049		mg/Kg	1	4/21/2022 8:07:00 PM	66963
Ethylbenzene	ND	0.049		mg/Kg	1	4/21/2022 8:07:00 PM	66963
Xylenes, Total	ND	0.097		mg/Kg	1	4/21/2022 8:07:00 PM	66963
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	1	4/21/2022 8:07:00 PM	66963

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204848

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-38 5-10'

Project: Avalanche Journal Battery

Collection Date: 4/15/2022 10:35:00 AM

Lab ID: 2204848-011

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	860	60		mg/Kg	20	4/26/2022 6:19:01 PM	67058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	4/25/2022 1:26:02 PM	66977
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	4/25/2022 1:26:02 PM	66977
Surr: DNOP	111	51.1-141		%Rec	1	4/25/2022 1:26:02 PM	66977
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/21/2022 8:27:00 PM	66963
Surr: BFB	103	37.7-212		%Rec	1	4/21/2022 8:27:00 PM	66963
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/21/2022 8:27:00 PM	66963
Toluene	ND	0.048		mg/Kg	1	4/21/2022 8:27:00 PM	66963
Ethylbenzene	ND	0.048		mg/Kg	1	4/21/2022 8:27:00 PM	66963
Xylenes, Total	ND	0.096		mg/Kg	1	4/21/2022 8:27:00 PM	66963
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	4/21/2022 8:27:00 PM	66963

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204848

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-39 4-8'

Project: Avalanche Journal Battery

Collection Date: 4/15/2022 2:10:00 PM

Lab ID: 2204848-012

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	2300	60		mg/Kg	20	4/26/2022 6:31:22 PM	67058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/25/2022 1:39:21 PM	66977
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/25/2022 1:39:21 PM	66977
Surr: DNOP	110	51.1-141		%Rec	1	4/25/2022 1:39:21 PM	66977
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/21/2022 8:47:00 PM	66963
Surr: BFB	104	37.7-212		%Rec	1	4/21/2022 8:47:00 PM	66963
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/21/2022 8:47:00 PM	66963
Toluene	ND	0.050		mg/Kg	1	4/21/2022 8:47:00 PM	66963
Ethylbenzene	ND	0.050		mg/Kg	1	4/21/2022 8:47:00 PM	66963
Xylenes, Total	ND	0.099		mg/Kg	1	4/21/2022 8:47:00 PM	66963
Surr: 4-Bromofluorobenzene	84.7	70-130		%Rec	1	4/21/2022 8:47:00 PM	66963

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204848

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-40 4-8'

Project: Avalanche Journal Battery

Collection Date: 4/15/2022 2:10:00 PM

Lab ID: 2204848-013

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	6000	300		mg/Kg	100	4/27/2022 12:59:28 PM	67058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	670	10		mg/Kg	1	4/26/2022 6:39:10 AM	67013
Motor Oil Range Organics (MRO)	520	50		mg/Kg	1	4/26/2022 6:39:10 AM	67013
Surr: DNOP	98.4	51.1-141		%Rec	1	4/26/2022 6:39:10 AM	67013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/21/2022 9:06:00 PM	66963
Surr: BFB	98.1	37.7-212		%Rec	1	4/21/2022 9:06:00 PM	66963
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/21/2022 9:06:00 PM	66963
Toluene	ND	0.047		mg/Kg	1	4/21/2022 9:06:00 PM	66963
Ethylbenzene	ND	0.047		mg/Kg	1	4/21/2022 9:06:00 PM	66963
Xylenes, Total	ND	0.093		mg/Kg	1	4/21/2022 9:06:00 PM	66963
Surr: 4-Bromofluorobenzene	82.6	70-130		%Rec	1	4/21/2022 9:06:00 PM	66963

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204848

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-42 4-8'

Project: Avalanche Journal Battery

Collection Date: 4/15/2022 2:15:00 PM

Lab ID: 2204848-014

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	3300	150		mg/Kg	50	4/27/2022 1:11:49 PM	67058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/25/2022 10:24:11 AM	67013
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/25/2022 10:24:11 AM	67013
Surr: DNOP	91.0	51.1-141		%Rec	1	4/25/2022 10:24:11 AM	67013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/22/2022 8:03:00 PM	66988
Surr: BFB	101	37.7-212		%Rec	1	4/22/2022 8:03:00 PM	66988
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/22/2022 8:03:00 PM	66988
Toluene	ND	0.048		mg/Kg	1	4/22/2022 8:03:00 PM	66988
Ethylbenzene	ND	0.048		mg/Kg	1	4/22/2022 8:03:00 PM	66988
Xylenes, Total	ND	0.097		mg/Kg	1	4/22/2022 8:03:00 PM	66988
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	4/22/2022 8:03:00 PM	66988

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204848

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-49 8'

Project: Avalanche Journal Battery

Collection Date: 4/15/2022 2:20:00 PM

Lab ID: 2204848-015

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	8300	300		mg/Kg	100	4/27/2022 1:24:10 PM	67058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	24	9.5		mg/Kg	1	4/25/2022 12:42:57 PM	67013
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/25/2022 12:42:57 PM	67013
Surr: DNOP	93.6	51.1-141		%Rec	1	4/25/2022 12:42:57 PM	67013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	4/22/2022 9:02:00 PM	66988
Surr: BFB	103	37.7-212		%Rec	5	4/22/2022 9:02:00 PM	66988
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	4/22/2022 9:02:00 PM	66988
Toluene	ND	0.25		mg/Kg	5	4/22/2022 9:02:00 PM	66988
Ethylbenzene	ND	0.25		mg/Kg	5	4/22/2022 9:02:00 PM	66988
Xylenes, Total	ND	0.49		mg/Kg	5	4/22/2022 9:02:00 PM	66988
Surr: 4-Bromofluorobenzene	85.4	70-130		%Rec	5	4/22/2022 9:02:00 PM	66988

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204848

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-50 8'

Project: Avalanche Journal Battery

Collection Date: 4/15/2022 2:20:00 PM

Lab ID: 2204848-016

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	6200	300		mg/Kg	100	4/27/2022 2:01:12 PM	67058
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/25/2022 1:07:03 PM	67013
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/25/2022 1:07:03 PM	67013
Surr: DNOP	93.7	51.1-141		%Rec	1	4/25/2022 1:07:03 PM	67013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/22/2022 10:01:00 PM	66988
Surr: BFB	102	37.7-212		%Rec	1	4/22/2022 10:01:00 PM	66988
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/22/2022 10:01:00 PM	66988
Toluene	ND	0.049		mg/Kg	1	4/22/2022 10:01:00 PM	66988
Ethylbenzene	ND	0.049		mg/Kg	1	4/22/2022 10:01:00 PM	66988
Xylenes, Total	ND	0.099		mg/Kg	1	4/22/2022 10:01:00 PM	66988
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	1	4/22/2022 10:01:00 PM	66988

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2204848

02-May-22

Client: EOG

Project: Avalanche Journal Battery

Sample ID: <b>MB-67058</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>PBS</b>	Batch ID: <b>67058</b>	RunNo: <b>87512</b>
Prep Date: <b>4/25/2022</b>	Analysis Date: <b>4/26/2022</b>	SeqNo: <b>3097677</b> Units: <b>mg/Kg</b>
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: <b>LCS-67058</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>LCSS</b>	Batch ID: <b>67058</b>	RunNo: <b>87512</b>
Prep Date: <b>4/25/2022</b>	Analysis Date: <b>4/26/2022</b>	SeqNo: <b>3097680</b> Units: <b>mg/Kg</b>
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 93.2 90 110

### 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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204848

02-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>MB-66977</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66977</b>	RunNo: <b>87468</b>								
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/24/2022</b>	SeqNo: <b>3095127</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		117	51.1	141			

Sample ID: <b>LCS-66977</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66977</b>	RunNo: <b>87468</b>								
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/24/2022</b>	SeqNo: <b>3095128</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	106	68.9	135			
Surr: DNOP	4.6		5.000		91.3	51.1	141			

Sample ID: <b>LCS-67013</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67013</b>	RunNo: <b>87499</b>								
Prep Date: <b>4/22/2022</b>	Analysis Date: <b>4/25/2022</b>	SeqNo: <b>3096434</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.4	68.9	135			
Surr: DNOP	3.9		5.000		78.5	51.1	141			

Sample ID: <b>MB-67013</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67013</b>	RunNo: <b>87499</b>								
Prep Date: <b>4/22/2022</b>	Analysis Date: <b>4/25/2022</b>	SeqNo: <b>3096436</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		88.2	51.1	141			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204848

02-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>lcs-66963</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66963</b>			RunNo: <b>87430</b>						
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>			SeqNo: <b>3093125</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	72.3	137			
Surr: BFB	2200		1000		225	37.7	212			S

Sample ID: <b>mb-66963</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66963</b>			RunNo: <b>87430</b>						
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>			SeqNo: <b>3093126</b>		Units: <b>mg/Kg</b>				
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		104	37.7	212			

Sample ID: <b>lcs-66988</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66988</b>			RunNo: <b>87447</b>						
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/22/2022</b>			SeqNo: <b>3094892</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	117	72.3	137			
Surr: BFB	2300		1000		230	37.7	212			S

Sample ID: <b>mb-66988</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66988</b>			RunNo: <b>87447</b>						
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/22/2022</b>			SeqNo: <b>3094893</b>		Units: <b>mg/Kg</b>				
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		103	37.7	212			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204848

02-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>lcs-66963</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66963</b>			RunNo: <b>87447</b>						
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/22/2022</b>			SeqNo: <b>3093856</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.3	80	120			
Toluene	0.90	0.050	1.000	0	90.2	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.4	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.2	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		85.9	70	130			

Sample ID: <b>mb-66963</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66963</b>			RunNo: <b>87447</b>						
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/22/2022</b>			SeqNo: <b>3093857</b>		Units: <b>mg/Kg</b>				
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		86.6	70	130			

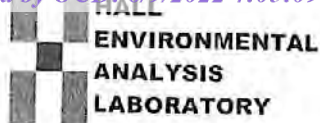
Sample ID: <b>lcs-66988</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66988</b>			RunNo: <b>87447</b>						
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/22/2022</b>			SeqNo: <b>3094957</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.2	80	120			
Toluene	0.88	0.050	1.000	0	87.9	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.3	80	120			
Xylenes, Total	2.6	0.10	3.000	0	88.0	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		86.5	70	130			

Sample ID: <b>mb-66988</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66988</b>			RunNo: <b>87447</b>						
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/22/2022</b>			SeqNo: <b>3094958</b>		Units: <b>mg/Kg</b>				
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			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		





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: 2204848

RcptNo: 1

Received By: Tracy Casarrubias

4/20/2022 7:40:00 AM

Completed By: Tracy Casarrubias

4/20/2022 9:10:52 AM

Reviewed By:

4-20-22

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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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:

(&lt;2 or &gt;12 unless noted)

Adjusted?

Checked by Chc 4/20/22Special 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.3	Good	Yes			
2	3.4	Good	Yes			

## Chain-of-Custody Record

Client:

EOG/Chase Seattle

Mailing Address:

 Turn-Around Time: ☒ Standard ☒ Rush 5 Day  
 Project Name: Ardenwiche Journal Battery

Project #:

22E-00347

Phone #:

email or Fax#:

Project Manager:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Sampler:

Mike Moffatt

On Ice:

☒ Yes ☐ No

# of Coolers:

2

Cooler Temp (including CP): 5.2 + 0.1 = 5.3 (°C)

3.3 ± 0.1 = 3.4

Container

Type and #

Preservative Type

HEAL No.

Type and #

Preservative Type

HEAL No.

 BTEX / MTBE / TMB's (8021)  
 TPH:8015D(GRO / DRO / MRO)  
 8081 Pesticides/8082 PCB's  
 EDB (Method 504.1)  
 PAHs by 8310 or 8270SIMS  
 RCRA 8 Metals  
 Cl, F, Br, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>  
 8260 (VOA)  
 8270 (Semi-VOA)  
 Total Coliform (Present/Absent)

Analysis Request

4901 Hawkins NE - Albuquerque, NM 87109

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

www.hallenvironmental.com


**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
4-15-2022	08:50	Soil	WES22-46 7	1 Jar		001
4-15-2022	08:55	Soil	WES22-33	1 Jar		002
4-15-2022	08:55	Soil	WES22-34	1 Jar		003
	09:30		BES22-47			004
	09:30		WES22-35			005
	09:35		WES22-36			006
	09:35		WES22-37			007
	10:30		BES22-41			008
	10:30		BES22-42			009
	10:35		BES22-48			010
	10:35		WES22-38			011
	14:10		WES22-39			012

 Relinquished by: Joe Williams  
 Date: 4/19/22 Time: 08:00  
 Relinquished by: Joe Williams  
 Date: 4/19/22 Time: 08:00  
 Received by: Shirley  
 Date: 4/19/22 Time: 08:00  
 Received by: Shirley  
 Date: 4/19/22 Time: 08:00

Remarks:

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



## Chain-of-Custody Record

Client:

EOR / Chase, Seattle

Mailing Address:

Avalanche Journal Battery

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard ☒ Rush 5 day

Project Name:

Project #:

22C-00347

Project Manager:

Michael Moffitt

Sampler: L. Fullman

On Ice: ☒ Yes ☐ No

# of Coolers: 2

Cooler Temp (including CRT): 5.2 to 5.3 (°C)

33 F to 1 = 34 HEAL No.

Container Type and #

Preservative Type

Type and #

Type

Type

BTEX / MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

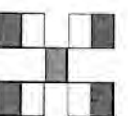
RCRA 8 Metals

Cl, F, Br, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)



**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
4-15-22	14:10	Soil	WES22-40 4-8'
4-15-22	14:15	Soil	WES22-42 4-8'
4-15-22	14:16	Soil	
4-15-22	14:20	Soil	BES22-49 8'
4-15-22	14:20	Soil	BES22-50 8'

Container Type and #	Preservative Type	HEAL No.
1 Jar		013
1 Jar		014
1 Jar		015
1 Jar		016

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
4-15-22	14:10	Soil	WES22-40 4-8'	1 Jar		013	X	X					X			
4-15-22	14:15	Soil	WES22-42 4-8'	1 Jar		014	X	X					X			
4-15-22	14:16	Soil		1 Jar			X	X					X			
4-15-22	14:20	Soil	BES22-49 8'	1 Jar		015	X	X					X			
4-15-22	14:20	Soil	BES22-50 8'	1 Jar		016	X	X					X			

Remarks:

Relinquished by:

Relinquished by:

Received by:

Via:

Date

Time

Received by:

Via:

Date

Time



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

May 04, 2022

Mike Moffitt

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Avalanche Journal Battery

OrderNo.: 2204852

Dear Mike Moffitt:

Hall Environmental Analysis Laboratory received 12 sample(s) on 4/20/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2204852

Date Reported: 5/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-43 0-4'

Project: Avalanche Journal Battery

Collection Date: 4/18/2022 12:05:00 PM

Lab ID: 2204852-001

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/26/2022 7:17:44 PM	67067
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/25/2022 4:45:20 PM	67013
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/25/2022 4:45:20 PM	67013
Surr: DNOP	74.6	51.1-141		%Rec	1	4/25/2022 4:45:20 PM	67013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/23/2022 1:38:00 AM	66988
Surr: BFB	107	37.7-212		%Rec	1	4/23/2022 1:38:00 AM	66988
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/23/2022 1:38:00 AM	66988
Toluene	ND	0.047		mg/Kg	1	4/23/2022 1:38:00 AM	66988
Ethylbenzene	ND	0.047		mg/Kg	1	4/23/2022 1:38:00 AM	66988
Xylenes, Total	ND	0.093		mg/Kg	1	4/23/2022 1:38:00 AM	66988
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	1	4/23/2022 1:38:00 AM	66988

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204852

Date Reported: 5/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-44 0-4'

Project: Avalanche Journal Battery

Collection Date: 4/18/2022 12:10:00 PM

Lab ID: 2204852-002

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	59		mg/Kg	20	4/26/2022 7:30:09 PM	67067
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/25/2022 5:19:21 PM	67013
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/25/2022 5:19:21 PM	67013
Surr: DNOP	68.8	51.1-141		%Rec	1	4/25/2022 5:19:21 PM	67013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/23/2022 1:58:00 AM	66988
Surr: BFB	109	37.7-212		%Rec	1	4/23/2022 1:58:00 AM	66988
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/23/2022 1:58:00 AM	66988
Toluene	ND	0.048		mg/Kg	1	4/23/2022 1:58:00 AM	66988
Ethylbenzene	ND	0.048		mg/Kg	1	4/23/2022 1:58:00 AM	66988
Xylenes, Total	ND	0.096		mg/Kg	1	4/23/2022 1:58:00 AM	66988
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	4/23/2022 1:58:00 AM	66988

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204852

Date Reported: 5/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-45 0-4'

Project: Avalanche Journal Battery

Collection Date: 4/18/2022 12:15:00 PM

Lab ID: 2204852-003

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/26/2022 8:07:23 PM	67067
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	4/25/2022 5:43:43 PM	67013
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/25/2022 5:43:43 PM	67013
Surr: DNOP	74.6	51.1-141		%Rec	1	4/25/2022 5:43:43 PM	67013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/23/2022 2:18:00 AM	66988
Surr: BFB	112	37.7-212		%Rec	1	4/23/2022 2:18:00 AM	66988
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/23/2022 2:18:00 AM	66988
Toluene	ND	0.047		mg/Kg	1	4/23/2022 2:18:00 AM	66988
Ethylbenzene	ND	0.047		mg/Kg	1	4/23/2022 2:18:00 AM	66988
Xylenes, Total	ND	0.094		mg/Kg	1	4/23/2022 2:18:00 AM	66988
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	4/23/2022 2:18:00 AM	66988

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204852

Date Reported: 5/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-51 4'

Project: Avalanche Journal Battery

Collection Date: 4/18/2022 12:20:00 PM

Lab ID: 2204852-004

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	3000	150		mg/Kg	50	4/27/2022 9:24:38 AM	67067
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	110	9.7		mg/Kg	1	4/26/2022 3:18:25 PM	67013
Motor Oil Range Organics (MRO)	160	48		mg/Kg	1	4/26/2022 3:18:25 PM	67013
Surr: DNOP	97.7	51.1-141		%Rec	1	4/26/2022 3:18:25 PM	67013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/23/2022 2:37:00 AM	66988
Surr: BFB	103	37.7-212		%Rec	1	4/23/2022 2:37:00 AM	66988
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/23/2022 2:37:00 AM	66988
Toluene	ND	0.046		mg/Kg	1	4/23/2022 2:37:00 AM	66988
Ethylbenzene	ND	0.046		mg/Kg	1	4/23/2022 2:37:00 AM	66988
Xylenes, Total	ND	0.093		mg/Kg	1	4/23/2022 2:37:00 AM	66988
Surr: 4-Bromofluorobenzene	83.2	70-130		%Rec	1	4/23/2022 2:37:00 AM	66988

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204852

Date Reported: 5/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-52 4'

Project: Avalanche Journal Battery

Collection Date: 4/18/2022 12:25:00 PM

Lab ID: 2204852-005

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	1200	60		mg/Kg	20	4/26/2022 8:32:13 PM	67067
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	36	9.5		mg/Kg	1	4/26/2022 3:45:10 PM	67013
Motor Oil Range Organics (MRO)	110	47		mg/Kg	1	4/26/2022 3:45:10 PM	67013
Surr: DNOP	77.4	51.1-141		%Rec	1	4/26/2022 3:45:10 PM	67013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/23/2022 2:57:00 AM	66988
Surr: BFB	106	37.7-212		%Rec	1	4/23/2022 2:57:00 AM	66988
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/23/2022 2:57:00 AM	66988
Toluene	ND	0.049		mg/Kg	1	4/23/2022 2:57:00 AM	66988
Ethylbenzene	ND	0.049		mg/Kg	1	4/23/2022 2:57:00 AM	66988
Xylenes, Total	ND	0.098		mg/Kg	1	4/23/2022 2:57:00 AM	66988
Surr: 4-Bromofluorobenzene	87.1	70-130		%Rec	1	4/23/2022 2:57:00 AM	66988

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204852

Date Reported: 5/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-53 4'

Project: Avalanche Journal Battery

Collection Date: 4/18/2022 12:30:00 PM

Lab ID: 2204852-006

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	1300	60		mg/Kg	20	4/26/2022 8:44:37 PM	67067
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	16	9.9		mg/Kg	1	4/25/2022 6:57:20 PM	67013
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/25/2022 6:57:20 PM	67013
Surr: DNOP	82.2	51.1-141		%Rec	1	4/25/2022 6:57:20 PM	67013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/23/2022 3:17:00 AM	66988
Surr: BFB	104	37.7-212		%Rec	1	4/23/2022 3:17:00 AM	66988
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/23/2022 3:17:00 AM	66988
Toluene	ND	0.050		mg/Kg	1	4/23/2022 3:17:00 AM	66988
Ethylbenzene	ND	0.050		mg/Kg	1	4/23/2022 3:17:00 AM	66988
Xylenes, Total	ND	0.099		mg/Kg	1	4/23/2022 3:17:00 AM	66988
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	4/23/2022 3:17:00 AM	66988

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204852

Date Reported: 5/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-55 4'

Project: Avalanche Journal Battery

Collection Date: 4/18/2022 12:40:00 PM

Lab ID: 2204852-007

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	1900	60		mg/Kg	20	4/26/2022 8:57:02 PM	67067
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	180	9.7		mg/Kg	1	4/26/2022 4:44:40 PM	67013
Motor Oil Range Organics (MRO)	200	49		mg/Kg	1	4/26/2022 4:44:40 PM	67013
Surr: DNOP	96.5	51.1-141		%Rec	1	4/26/2022 4:44:40 PM	67013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/23/2022 5:35:00 AM	66988
Surr: BFB	104	37.7-212		%Rec	1	4/23/2022 5:35:00 AM	66988
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/23/2022 5:35:00 AM	66988
Toluene	ND	0.049		mg/Kg	1	4/23/2022 5:35:00 AM	66988
Ethylbenzene	ND	0.049		mg/Kg	1	4/23/2022 5:35:00 AM	66988
Xylenes, Total	ND	0.098		mg/Kg	1	4/23/2022 5:35:00 AM	66988
Surr: 4-Bromofluorobenzene	84.1	70-130		%Rec	1	4/23/2022 5:35:00 AM	66988

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204852

Date Reported: 5/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-56 4'

Project: Avalanche Journal Battery

Collection Date: 4/18/2022 12:45:00 PM

Lab ID: 2204852-008

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	4400	150		mg/Kg	50	4/27/2022 9:37:03 AM	67067
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/25/2022 8:10:35 PM	67013
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/25/2022 8:10:35 PM	67013
Surr: DNOP	82.2	51.1-141		%Rec	1	4/25/2022 8:10:35 PM	67013
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/23/2022 5:55:00 AM	66988
Surr: BFB	109	37.7-212		%Rec	1	4/23/2022 5:55:00 AM	66988
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/23/2022 5:55:00 AM	66988
Toluene	ND	0.050		mg/Kg	1	4/23/2022 5:55:00 AM	66988
Ethylbenzene	ND	0.050		mg/Kg	1	4/23/2022 5:55:00 AM	66988
Xylenes, Total	ND	0.10		mg/Kg	1	4/23/2022 5:55:00 AM	66988
Surr: 4-Bromofluorobenzene	89.9	70-130		%Rec	1	4/23/2022 5:55:00 AM	66988

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204852

Date Reported: 5/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-57 4'

Project: Avalanche Journal Battery

Collection Date: 4/18/2022 12:50:00 PM

Lab ID: 2204852-009

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	6200	300		mg/Kg	100	4/27/2022 9:49:27 AM	67067
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/26/2022 1:26:56 AM	67014
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/26/2022 1:26:56 AM	67014
Surr: DNOP	98.0	51.1-141		%Rec	1	4/26/2022 1:26:56 AM	67014
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/23/2022 6:15:00 AM	66988
Surr: BFB	108	37.7-212		%Rec	1	4/23/2022 6:15:00 AM	66988
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/23/2022 6:15:00 AM	66988
Toluene	ND	0.049		mg/Kg	1	4/23/2022 6:15:00 AM	66988
Ethylbenzene	ND	0.049		mg/Kg	1	4/23/2022 6:15:00 AM	66988
Xylenes, Total	ND	0.099		mg/Kg	1	4/23/2022 6:15:00 AM	66988
Surr: 4-Bromofluorobenzene	88.6	70-130		%Rec	1	4/23/2022 6:15:00 AM	66988

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204852

Date Reported: 5/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-58 4'

Project: Avalanche Journal Battery

Collection Date: 4/18/2022 12:55:00 PM

Lab ID: 2204852-010

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	1200	60		mg/Kg	20	4/26/2022 9:59:05 PM	67067
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	55	9.0		mg/Kg	1	4/26/2022 1:17:27 PM	67014
Motor Oil Range Organics (MRO)	230	45		mg/Kg	1	4/26/2022 1:17:27 PM	67014
Surr: DNOP	103	51.1-141		%Rec	1	4/26/2022 1:17:27 PM	67014
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/23/2022 6:35:00 AM	66994
Surr: BFB	104	37.7-212		%Rec	1	4/23/2022 6:35:00 AM	66994
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/23/2022 6:35:00 AM	66994
Toluene	ND	0.047		mg/Kg	1	4/23/2022 6:35:00 AM	66994
Ethylbenzene	ND	0.047		mg/Kg	1	4/23/2022 6:35:00 AM	66994
Xylenes, Total	ND	0.094		mg/Kg	1	4/23/2022 6:35:00 AM	66994
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	4/23/2022 6:35:00 AM	66994

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2204852

Date Reported: 5/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-59 4'

Project: Avalanche Journal Battery

Collection Date: 4/18/2022 1:00:00 PM

Lab ID: 2204852-011

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	5000	150		mg/Kg	50	4/27/2022 10:01:52 AM	67067
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	120	8.9		mg/Kg	1	4/26/2022 1:44:52 PM	67014
Motor Oil Range Organics (MRO)	340	45		mg/Kg	1	4/26/2022 1:44:52 PM	67014
Surr: DNOP	101	51.1-141		%Rec	1	4/26/2022 1:44:52 PM	67014
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/23/2022 7:34:00 AM	66994
Surr: BFB	101	37.7-212		%Rec	1	4/23/2022 7:34:00 AM	66994
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/23/2022 7:34:00 AM	66994
Toluene	ND	0.049		mg/Kg	1	4/23/2022 7:34:00 AM	66994
Ethylbenzene	ND	0.049		mg/Kg	1	4/23/2022 7:34:00 AM	66994
Xylenes, Total	ND	0.098		mg/Kg	1	4/23/2022 7:34:00 AM	66994
Surr: 4-Bromofluorobenzene	83.8	70-130		%Rec	1	4/23/2022 7:34:00 AM	66994

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2204852

Date Reported: 5/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-54 4'

Project: Avalanche Journal Battery

Collection Date: 4/18/2022 12:35:00 PM

Lab ID: 2204852-012

Matrix: SOIL

Received Date: 4/20/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	1100	60		mg/Kg	20	4/26/2022 10:23:54 PM	67067
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/25/2022 2:19:49 PM	67014
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/25/2022 2:19:49 PM	67014
Surr: DNOP	101	51.1-141		%Rec	1	4/25/2022 2:19:49 PM	67014
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/23/2022 8:34:00 AM	66994
Surr: BFB	107	37.7-212		%Rec	1	4/23/2022 8:34:00 AM	66994
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	4/23/2022 8:34:00 AM	66994
Toluene	ND	0.049		mg/Kg	1	4/23/2022 8:34:00 AM	66994
Ethylbenzene	ND	0.049		mg/Kg	1	4/23/2022 8:34:00 AM	66994
Xylenes, Total	ND	0.098		mg/Kg	1	4/23/2022 8:34:00 AM	66994
Surr: 4-Bromofluorobenzene	87.5	70-130		%Rec	1	4/23/2022 8:34:00 AM	66994

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2204852

04-May-22

Client: EOG

Project: Avalanche Journal Battery

Sample ID: <b>MB-67067</b>	SampType: <b>mbk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67067</b>	RunNo: <b>87540</b>								
Prep Date: <b>4/26/2022</b>	Analysis Date: <b>4/26/2022</b>	SeqNo: <b>3098355</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-67067</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67067</b>	RunNo: <b>87540</b>								
Prep Date: <b>4/26/2022</b>	Analysis Date: <b>4/26/2022</b>	SeqNo: <b>3098356</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.0	90	110			

### 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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204852

04-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>MB-67014</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67014</b>	RunNo: <b>87468</b>								
Prep Date: <b>4/22/2022</b>	Analysis Date: <b>4/24/2022</b>	SeqNo: <b>3095123</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.0	51.1	141			

Sample ID: <b>LCS-67014</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67014</b>	RunNo: <b>87468</b>								
Prep Date: <b>4/22/2022</b>	Analysis Date: <b>4/24/2022</b>	SeqNo: <b>3095124</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.1	68.9	135			
Surr: DNOP	4.2		5.000		84.3	51.1	141			

Sample ID: <b>LCS-67013</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67013</b>	RunNo: <b>87499</b>								
Prep Date: <b>4/22/2022</b>	Analysis Date: <b>4/25/2022</b>	SeqNo: <b>3096434</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.4	68.9	135			
Surr: DNOP	3.9		5.000		78.5	51.1	141			

Sample ID: <b>MB-67013</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67013</b>	RunNo: <b>87499</b>								
Prep Date: <b>4/22/2022</b>	Analysis Date: <b>4/25/2022</b>	SeqNo: <b>3096436</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		88.2	51.1	141			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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

WO#: 2204852

04-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>ics-66988</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>66988</b>		RunNo: <b>87447</b>							
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/22/2022</b>		SeqNo: <b>3094892</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	117	72.3	137			
Surr: BFB	2300		1000		230	37.7	212			S

Sample ID: <b>mb-66988</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>66988</b>		RunNo: <b>87447</b>							
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/22/2022</b>		SeqNo: <b>3094893</b>		Units: <b>mg/Kg</b>					
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		103	37.7	212			

Sample ID: <b>ics-66994</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>66994</b>		RunNo: <b>87447</b>							
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/23/2022</b>		SeqNo: <b>3094916</b>		Units: <b>mg/Kg</b>					
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		234	37.7	212			S

Sample ID: <b>mb-66994</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>66994</b>		RunNo: <b>87447</b>							
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/23/2022</b>		SeqNo: <b>3094917</b>		Units: <b>mg/Kg</b>					
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			

**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 Quantitative 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#: 2204852

04-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>ics-66988</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66988</b>			RunNo: <b>87447</b>						
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/22/2022</b>			SeqNo: <b>3094957</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.2	80	120			
Toluene	0.88	0.050	1.000	0	87.9	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.3	80	120			
Xylenes, Total	2.6	0.10	3.000	0	88.0	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		86.5	70	130			

Sample ID: <b>mb-66988</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66988</b>			RunNo: <b>87447</b>						
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/22/2022</b>			SeqNo: <b>3094958</b>			Units: <b>mg/Kg</b>			
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: <b>ics-66994</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66994</b>			RunNo: <b>87447</b>						
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/23/2022</b>			SeqNo: <b>3094981</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	83.8	80	120			
Toluene	0.86	0.050	1.000	0	86.5	80	120			
Ethylbenzene	0.88	0.050	1.000	0	87.8	80	120			
Xylenes, Total	2.6	0.10	3.000	0	88.1	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.3	70	130			

Sample ID: <b>mb-66994</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66994</b>			RunNo: <b>87447</b>						
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/23/2022</b>			SeqNo: <b>3094982</b>			Units: <b>mg/Kg</b>			
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	0.89		1.000		89.0	70	130			

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



**ENVIRONMENTAL  
ANALYSIS  
LABORATORY**

Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4103  
Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: EOG

Work Order Number: 2204852

RcptNo: 1

Received By: Tracy Casarrubias 4/20/2022 7:40:00 AM

Completed By: Tracy Casarrubias 4/20/2022 9:51:04 AM

Reviewed By: *[Signature]* 4-20-22

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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:

( $\leq 2$  or  $>12$  unless noted)

Adjusted?

Checked by: *Cmc 4/20/22*

### 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.3	Good	Yes			
2	3.4	Good	Yes			







Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

May 06, 2022

Mike Moffitt

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX

RE: Avalanche Journal Battery

OrderNo.: 2204926

Dear Mike Moffitt:

Hall Environmental Analysis Laboratory received 12 sample(s) on 4/21/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2204926

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-47 4-8

Project: Avalanche Journal Battery

Collection Date: 4/19/2022 9:20:00 AM

Lab ID: 2204926-001

Matrix: SOIL

Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	4100	150		mg/Kg	50	5/6/2022 8:41:26 AM	67091
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/25/2022 2:46:54 PM	67014
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/25/2022 2:46:54 PM	67014
Surr: DNOP	103	51.1-141		%Rec	1	4/25/2022 2:46:54 PM	67014
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/23/2022 8:53:00 AM	66994
Surr: BFB	106	37.7-212		%Rec	1	4/23/2022 8:53:00 AM	66994
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	4/23/2022 8:53:00 AM	66994
Toluene	ND	0.048		mg/Kg	1	4/23/2022 8:53:00 AM	66994
Ethylbenzene	ND	0.048		mg/Kg	1	4/23/2022 8:53:00 AM	66994
Xylenes, Total	ND	0.095		mg/Kg	1	4/23/2022 8:53:00 AM	66994
Surr: 4-Bromofluorobenzene	87.5	70-130		%Rec	1	4/23/2022 8:53:00 AM	66994

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204926

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-60 4'

Project: Avalanche Journal Battery

Collection Date: 4/19/2022 9:55:00 AM

Lab ID: 2204926-002

Matrix: SOIL

Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	91	60		mg/Kg	20	4/27/2022 2:46:09 AM	67091
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/25/2022 3:00:26 PM	67014
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/25/2022 3:00:26 PM	67014
Surr: DNOP	91.2	51.1-141		%Rec	1	4/25/2022 3:00:26 PM	67014
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/23/2022 9:13:00 AM	66994
Surr: BFB	105	37.7-212		%Rec	1	4/23/2022 9:13:00 AM	66994
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	4/23/2022 9:13:00 AM	66994
Toluene	ND	0.048		mg/Kg	1	4/23/2022 9:13:00 AM	66994
Ethylbenzene	ND	0.048		mg/Kg	1	4/23/2022 9:13:00 AM	66994
Xylenes, Total	ND	0.096		mg/Kg	1	4/23/2022 9:13:00 AM	66994
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	4/23/2022 9:13:00 AM	66994

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204926

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-61 4'

Project: Avalanche Journal Battery

Collection Date: 4/19/2022 10:00:00 AM

Lab ID: 2204926-003

Matrix: SOIL

Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	620	60		mg/Kg	20	4/27/2022 2:58:33 AM	67091
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	4/25/2022 3:14:06 PM	67014
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	4/25/2022 3:14:06 PM	67014
Surr: DNOP	107	51.1-141		%Rec	1	4/25/2022 3:14:06 PM	67014
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/23/2022 9:33:00 AM	66994
Surr: BFB	110	37.7-212		%Rec	1	4/23/2022 9:33:00 AM	66994
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.023		mg/Kg	1	4/23/2022 9:33:00 AM	66994
Toluene	ND	0.047		mg/Kg	1	4/23/2022 9:33:00 AM	66994
Ethylbenzene	ND	0.047		mg/Kg	1	4/23/2022 9:33:00 AM	66994
Xylenes, Total	ND	0.094		mg/Kg	1	4/23/2022 9:33:00 AM	66994
Surr: 4-Bromofluorobenzene	88.7	70-130		%Rec	1	4/23/2022 9:33:00 AM	66994

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204926

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-62 4'

Project: Avalanche Journal Battery

Collection Date: 4/19/2022 10:05:00 AM

Lab ID: 2204926-004

Matrix: SOIL

Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	290	30		mg/Kg	20	4/27/2022 3:10:58 AM	67091
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	22	10		mg/Kg	1	4/27/2022 2:30:20 PM	67014
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	4/27/2022 2:30:20 PM	67014
Surr: DNOP	104	51.1-141		%Rec	1	4/27/2022 2:30:20 PM	67014
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/23/2022 9:53:00 AM	66994
Surr: BFB	104	37.7-212		%Rec	1	4/23/2022 9:53:00 AM	66994
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	4/23/2022 9:53:00 AM	66994
Toluene	ND	0.047		mg/Kg	1	4/23/2022 9:53:00 AM	66994
Ethylbenzene	ND	0.047		mg/Kg	1	4/23/2022 9:53:00 AM	66994
Xylenes, Total	ND	0.094		mg/Kg	1	4/23/2022 9:53:00 AM	66994
Surr: 4-Bromofluorobenzene	87.1	70-130		%Rec	1	4/23/2022 9:53:00 AM	66994

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204926

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-63 4'

Project: Avalanche Journal Battery

Collection Date: 4/19/2022 10:10:00 AM

Lab ID: 2204926-005

Matrix: SOIL

Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	1600	60		mg/Kg	20	4/27/2022 4:07:39 PM	67105
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	4/25/2022 3:27:30 PM	67014
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	4/25/2022 3:27:30 PM	67014
Surr: DNOP	98.3	51.1-141		%Rec	1	4/25/2022 3:27:30 PM	67014
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/23/2022 10:52:00 AM	66994
Surr: BFB	109	37.7-212		%Rec	1	4/23/2022 10:52:00 AM	66994
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/23/2022 10:52:00 AM	66994
Toluene	ND	0.048		mg/Kg	1	4/23/2022 10:52:00 AM	66994
Ethylbenzene	ND	0.048		mg/Kg	1	4/23/2022 10:52:00 AM	66994
Xylenes, Total	ND	0.095		mg/Kg	1	4/23/2022 10:52:00 AM	66994
Surr: 4-Bromofluorobenzene	88.9	70-130		%Rec	1	4/23/2022 10:52:00 AM	66994

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2204926

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-64 4'

Project: Avalanche Journal Battery

Collection Date: 4/19/2022 10:15:00 AM

Lab ID: 2204926-006

Matrix: SOIL

Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	1600	60		mg/Kg	20	4/27/2022 4:44:53 PM	67105
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	400	8.6		mg/Kg	1	4/26/2022 10:29:25 AM	67014
Motor Oil Range Organics (MRO)	190	43		mg/Kg	1	4/26/2022 10:29:25 AM	67014
Surr: DNOP	97.9	51.1-141		%Rec	1	4/26/2022 10:29:25 AM	67014
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	4/23/2022 11:12:00 AM	66994
Surr: BFB	110	37.7-212		%Rec	5	4/23/2022 11:12:00 AM	66994
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	4/23/2022 11:12:00 AM	66994
Toluene	ND	0.23		mg/Kg	5	4/23/2022 11:12:00 AM	66994
Ethylbenzene	ND	0.23		mg/Kg	5	4/23/2022 11:12:00 AM	66994
Xylenes, Total	ND	0.47		mg/Kg	5	4/23/2022 11:12:00 AM	66994
Surr: 4-Bromofluorobenzene	88.3	70-130		%Rec	5	4/23/2022 11:12:00 AM	66994

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204926

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-65 4'

Project: Avalanche Journal Battery

Collection Date: 4/19/2022 10:20:00 AM

Lab ID: 2204926-007

Matrix: SOIL

Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	2900	150		mg/Kg	50	4/28/2022 10:03:24 AM	67105
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	64	8.4		mg/Kg	1	4/26/2022 11:16:31 AM	67014
Motor Oil Range Organics (MRO)	63	42		mg/Kg	1	4/26/2022 11:16:31 AM	67014
Surr: DNOP	98.4	51.1-141		%Rec	1	4/26/2022 11:16:31 AM	67014
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/23/2022 11:32:00 AM	66994
Surr: BFB	107	37.7-212		%Rec	1	4/23/2022 11:32:00 AM	66994
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/23/2022 11:32:00 AM	66994
Toluene	ND	0.048		mg/Kg	1	4/23/2022 11:32:00 AM	66994
Ethylbenzene	ND	0.048		mg/Kg	1	4/23/2022 11:32:00 AM	66994
Xylenes, Total	ND	0.095		mg/Kg	1	4/23/2022 11:32:00 AM	66994
Surr: 4-Bromofluorobenzene	89.8	70-130		%Rec	1	4/23/2022 11:32:00 AM	66994

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204926

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-66 4'

Project: Avalanche Journal Battery

Collection Date: 4/19/2022 12:55:00 PM

Lab ID: 2204926-008

Matrix: SOIL

Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	4100	150		mg/Kg	50	4/28/2022 10:15:49 AM	67105
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	4/25/2022 4:21:49 PM	67014
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	4/25/2022 4:21:49 PM	67014
Surr: DNOP	107	51.1-141		%Rec	1	4/25/2022 4:21:49 PM	67014
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/23/2022 11:52:00 AM	66994
Surr: BFB	109	37.7-212		%Rec	1	4/23/2022 11:52:00 AM	66994
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/23/2022 11:52:00 AM	66994
Toluene	ND	0.048		mg/Kg	1	4/23/2022 11:52:00 AM	66994
Ethylbenzene	ND	0.048		mg/Kg	1	4/23/2022 11:52:00 AM	66994
Xylenes, Total	ND	0.097		mg/Kg	1	4/23/2022 11:52:00 AM	66994
Surr: 4-Bromofluorobenzene	88.1	70-130		%Rec	1	4/23/2022 11:52:00 AM	66994

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204926

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-67 4'

Project: Avalanche Journal Battery

Collection Date: 4/19/2022 1:00:00 PM

Lab ID: 2204926-009

Matrix: SOIL

Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	2600	150		mg/Kg	50	4/28/2022 10:28:13 AM	67105
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/25/2022 4:35:14 PM	67014
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/25/2022 4:35:14 PM	67014
Surr: DNOP	105	51.1-141		%Rec	1	4/25/2022 4:35:14 PM	67014
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/23/2022 12:12:00 PM	66994
Surr: BFB	109	37.7-212		%Rec	1	4/23/2022 12:12:00 PM	66994
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/23/2022 12:12:00 PM	66994
Toluene	ND	0.048		mg/Kg	1	4/23/2022 12:12:00 PM	66994
Ethylbenzene	ND	0.048		mg/Kg	1	4/23/2022 12:12:00 PM	66994
Xylenes, Total	ND	0.096		mg/Kg	1	4/23/2022 12:12:00 PM	66994
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	4/23/2022 12:12:00 PM	66994

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204926

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-68 4'

Project: Avalanche Journal Battery

Collection Date: 4/19/2022 1:05:00 PM

Lab ID: 2204926-010

Matrix: SOIL

Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	870	60		mg/Kg	20	4/27/2022 5:34:30 PM	67105
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/27/2022 1:21:44 PM	67014
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/27/2022 1:21:44 PM	67014
Surr: DNOP	101	51.1-141		%Rec	1	4/27/2022 1:21:44 PM	67014
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/23/2022 12:31:00 PM	66994
Surr: BFB	106	37.7-212		%Rec	1	4/23/2022 12:31:00 PM	66994
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/23/2022 12:31:00 PM	66994
Toluene	ND	0.047		mg/Kg	1	4/23/2022 12:31:00 PM	66994
Ethylbenzene	ND	0.047		mg/Kg	1	4/23/2022 12:31:00 PM	66994
Xylenes, Total	ND	0.094		mg/Kg	1	4/23/2022 12:31:00 PM	66994
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	4/23/2022 12:31:00 PM	66994

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204926

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-69 4'

Project: Avalanche Journal Battery

Collection Date: 4/19/2022 1:10:00 PM

Lab ID: 2204926-011

Matrix: SOIL

Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	89	60		mg/Kg	20	4/27/2022 2:42:45 PM	67120
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	15	9.0		mg/Kg	1	4/27/2022 1:49:04 PM	67014
Motor Oil Range Organics (MRO)	47	45		mg/Kg	1	4/27/2022 1:49:04 PM	67014
Surr: DNOP	91.1	51.1-141		%Rec	1	4/27/2022 1:49:04 PM	67014
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/23/2022 12:51:00 PM	66994
Surr: BFB	104	37.7-212		%Rec	1	4/23/2022 12:51:00 PM	66994
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/23/2022 12:51:00 PM	66994
Toluene	ND	0.048		mg/Kg	1	4/23/2022 12:51:00 PM	66994
Ethylbenzene	ND	0.048		mg/Kg	1	4/23/2022 12:51:00 PM	66994
Xylenes, Total	ND	0.095		mg/Kg	1	4/23/2022 12:51:00 PM	66994
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	1	4/23/2022 12:51:00 PM	66994

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 11 of 16

## Analytical Report

Lab Order 2204926

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-70 4'

Project: Avalanche Journal Battery

Collection Date: 4/19/2022 1:15:00 PM

Lab ID: 2204926-012

Matrix: SOIL

Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	5000	300		mg/Kg	100	4/28/2022 10:40:38 AM	67105
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/26/2022 9:18:50 AM	67014
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/26/2022 9:18:50 AM	67014
Surr: DNOP	97.6	51.1-141		%Rec	1	4/26/2022 9:18:50 AM	67014
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/23/2022 1:11:00 PM	66994
Surr: BFB	107	37.7-212		%Rec	1	4/23/2022 1:11:00 PM	66994
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/23/2022 1:11:00 PM	66994
Toluene	ND	0.049		mg/Kg	1	4/23/2022 1:11:00 PM	66994
Ethylbenzene	ND	0.049		mg/Kg	1	4/23/2022 1:11:00 PM	66994
Xylenes, Total	ND	0.098		mg/Kg	1	4/23/2022 1:11:00 PM	66994
Surr: 4-Bromofluorobenzene	88.6	70-130		%Rec	1	4/23/2022 1:11:00 PM	66994

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 12 of 16

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

WO#: 2204926

06-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>MB-67091</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67091</b>	RunNo: <b>87537</b>								
Prep Date: <b>4/26/2022</b>	Analysis Date: <b>4/26/2022</b>	SeqNo: <b>3097765</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-67091</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67091</b>	RunNo: <b>87537</b>								
Prep Date: <b>4/26/2022</b>	Analysis Date: <b>4/26/2022</b>	SeqNo: <b>3097766</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.5	90	110			

Sample ID: <b>MB-67120</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67120</b>	RunNo: <b>87579</b>								
Prep Date: <b>4/27/2022</b>	Analysis Date: <b>4/27/2022</b>	SeqNo: <b>3099472</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-67120</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67120</b>	RunNo: <b>87579</b>								
Prep Date: <b>4/27/2022</b>	Analysis Date: <b>4/27/2022</b>	SeqNo: <b>3099473</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.8	90	110			

Sample ID: <b>MB-67105</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67105</b>	RunNo: <b>87560</b>								
Prep Date: <b>4/27/2022</b>	Analysis Date: <b>4/27/2022</b>	SeqNo: <b>3099509</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-67105</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67105</b>	RunNo: <b>87560</b>								
Prep Date: <b>4/27/2022</b>	Analysis Date: <b>4/27/2022</b>	SeqNo: <b>3099510</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.0	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 Quantitative 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#: 2204926

06-May-22

**Client:** EOG  
**Project:** Avalanche Journal Battery

Sample ID: <b>MB-67014</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67014</b>	RunNo: <b>87468</b>								
Prep Date: <b>4/22/2022</b>	Analysis Date: <b>4/24/2022</b>	SeqNo: <b>3095123</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.0	51.1	141			

Sample ID: <b>LCS-67014</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67014</b>	RunNo: <b>87468</b>								
Prep Date: <b>4/22/2022</b>	Analysis Date: <b>4/24/2022</b>	SeqNo: <b>3095124</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.1	68.9	135			
Surr: DNOP	4.2		5.000		84.3	51.1	141			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204926

06-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>lcs-66994</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66994</b>			RunNo: <b>87447</b>						
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/23/2022</b>			SeqNo: <b>3094916</b>		Units: <b>mg/Kg</b>				
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		234	37.7	212			S

Sample ID: <b>mb-66994</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66994</b>			RunNo: <b>87447</b>						
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/23/2022</b>			SeqNo: <b>3094917</b>		Units: <b>mg/Kg</b>				
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			

**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 Quantitative 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#: 2204926

06-May-22

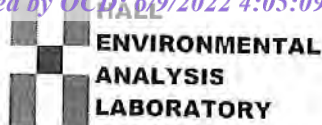
**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>lcs-66994</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66994</b>			RunNo: <b>87447</b>						
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/23/2022</b>			SeqNo: <b>3094981</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	83.8	80	120			
Toluene	0.86	0.050	1.000	0	86.5	80	120			
Ethylbenzene	0.88	0.050	1.000	0	87.8	80	120			
Xylenes, Total	2.6	0.10	3.000	0	88.1	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.3	70	130			

Sample ID: <b>mb-66994</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66994</b>			RunNo: <b>87447</b>						
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/23/2022</b>			SeqNo: <b>3094982</b>		Units: <b>mg/Kg</b>				
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	0.89		1.000		89.0	70	130			

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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: 2204926

RcptNo: 1

Received By: Tracy Casarrubias 4/21/2022 7:40:00 AM

Completed By: Tracy Casarrubias 4/21/2022 8:43:01 AM

Reviewed By: *One* 4/21/22Chain 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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: *Jan 4/21/22*

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.6	Good	Yes			



## Chain-of-Custody Record

Client: GOA, Chase Soffle

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)Accreditation: ☐ AZ Compliance☐ NELAC☐ Other☐ EDD (Type)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
4-19-22	09:20	Soil	WES22-47	1 Jar		2204920
4-19-22	09:55	Soil	BES22-60	1 Jar		001
4-19-22	10:00	Soil	BES22-61	1 Jar		002
4-19-22	10:05	Soil	BES22-62	1 Jar		003
4-19-22	10:10	Soil	BES22-63	1 Jar		004
4-19-22	10:15	Soil	BES22-64	1 Jar		005
4-19-22	10:20	Soil	BES22-65	1 Jar		006
4-19-22	12:55	Soil	BES22-66	1 Jar		007
4-19-22	13:00	Soil	BES22-67	1 Jar		008
4-19-22	13:05	Soil	BES22-68	1 Jar		009
4-19-22	13:10	Soil	BES22-69	1 Jar		010
4-19-22	13:15	Soil	BES22-70	1 Jar		011

Relinquished by:

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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

May 05, 2022

Mike Moffitt

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX

RE: Avalanche Journal Battery

OrderNo.: 2204929

Dear Mike Moffitt:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/21/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109



## Analytical Report

Lab Order 2204929

Date Reported: 5/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-71 4'

Project: Avalanche Journal Battery

Collection Date: 4/19/2022 1:20:00 PM

Lab ID: 2204929-001

Matrix: SOIL

Received Date: 4/21/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	4000	150		mg/Kg	50	4/28/2022 1:59:11 PM	67120
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	4/26/2022 9:42:20 AM	67014
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	4/26/2022 9:42:20 AM	67014
Surr: DNOP	97.7	51.1-141		%Rec	1	4/26/2022 9:42:20 AM	67014
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/23/2022 1:31:00 PM	66994
Surr: BFB	110	37.7-212		%Rec	1	4/23/2022 1:31:00 PM	66994
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/23/2022 1:31:00 PM	66994
Toluene	ND	0.048		mg/Kg	1	4/23/2022 1:31:00 PM	66994
Ethylbenzene	ND	0.048		mg/Kg	1	4/23/2022 1:31:00 PM	66994
Xylenes, Total	ND	0.096		mg/Kg	1	4/23/2022 1:31:00 PM	66994
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	1	4/23/2022 1:31:00 PM	66994

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 1 of 5

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

WO#: 2204929

05-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>MB-67120</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67120</b>	RunNo: <b>87579</b>								
Prep Date: <b>4/27/2022</b>	Analysis Date: <b>4/27/2022</b>	SeqNo: <b>3099472</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-67120</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67120</b>	RunNo: <b>87579</b>								
Prep Date: <b>4/27/2022</b>	Analysis Date: <b>4/27/2022</b>	SeqNo: <b>3099473</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.8	90	110			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Page 2 of 5

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

WO#: 2204929

05-May-22

**Client:** EOG  
**Project:** Avalanche Journal Battery

Sample ID: <b>MB-67014</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67014</b>	RunNo: <b>87468</b>								
Prep Date: <b>4/22/2022</b>	Analysis Date: <b>4/24/2022</b>	SeqNo: <b>3095123</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.0	51.1	141			

Sample ID: <b>LCS-67014</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67014</b>	RunNo: <b>87468</b>								
Prep Date: <b>4/22/2022</b>	Analysis Date: <b>4/24/2022</b>	SeqNo: <b>3095124</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.1	68.9	135			
Surr: DNOP	4.2		5.000		84.3	51.1	141			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204929

05-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>lcs-66994</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66994</b>			RunNo: <b>87447</b>						
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/23/2022</b>			SeqNo: <b>3094916</b>		Units: <b>mg/Kg</b>				
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		234	37.7	212			S

Sample ID: <b>mb-66994</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66994</b>			RunNo: <b>87447</b>						
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/23/2022</b>			SeqNo: <b>3094917</b>		Units: <b>mg/Kg</b>				
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			

**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 Quantitative 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#: 2204929

05-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

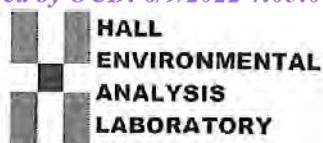
Sample ID: <b>lcs-66994</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66994</b>			RunNo: <b>87447</b>						
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/23/2022</b>			SeqNo: <b>3094981</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	83.8	80	120			
Toluene	0.86	0.050	1.000	0	86.5	80	120			
Ethylbenzene	0.88	0.050	1.000	0	87.8	80	120			
Xylenes, Total	2.6	0.10	3.000	0	88.1	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.3	70	130			

Sample ID: <b>mb-66994</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66994</b>			RunNo: <b>87447</b>						
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/23/2022</b>			SeqNo: <b>3094982</b>		Units: <b>mg/Kg</b>				
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	0.89		1.000		89.0	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 Quantitative 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  
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: 2204929

RcptNo: 1

Received By: Tracy Casarrubias 4/21/2022 7:40:00 AM

Completed By: Tracy Casarrubias 4/21/2022 8:57:05 AM

Reviewed By: *CME* 4/21/22Chain 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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: 7 ( $<2$  or  $>12$  unless noted)  
Adjusted? 7  
Checked by: JMC 4/21/22

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.6	Good	Yes			







Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

May 05, 2022

Chase Settle

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX

RE: Avalanche Journal Battery

OrderNo.: 2204986

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 10 sample(s) on 4/22/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2204986

Date Reported: 5/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-72 4'

Project: Avalanche Journal Battery

Collection Date: 4/20/2022 8:45:00 AM

Lab ID: 2204986-001

Matrix: SOIL

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	2800	150		mg/Kg	50	4/28/2022 2:11:36 PM	67123
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/26/2022 2:38:18 AM	67025
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/26/2022 2:38:18 AM	67025
Surr: DNOP	101	51.1-141		%Rec	1	4/26/2022 2:38:18 AM	67025
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/25/2022 5:45:00 PM	67021
Surr: BFB	103	37.7-212		%Rec	1	4/25/2022 5:45:00 PM	67021
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/25/2022 5:45:00 PM	67021
Toluene	ND	0.049		mg/Kg	1	4/25/2022 5:45:00 PM	67021
Ethylbenzene	ND	0.049		mg/Kg	1	4/25/2022 5:45:00 PM	67021
Xylenes, Total	ND	0.099		mg/Kg	1	4/25/2022 5:45:00 PM	67021
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	1	4/25/2022 5:45:00 PM	67021

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204986

Date Reported: 5/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-73 4'

Project: Avalanche Journal Battery

Collection Date: 4/20/2022 8:20:00 AM

Lab ID: 2204986-002

Matrix: SOIL

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	900	61		mg/Kg	20	4/28/2022 12:23:00 AM	67123
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/26/2022 3:02:25 AM	67025
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/26/2022 3:02:25 AM	67025
Surr: DNOP	84.8	51.1-141		%Rec	1	4/26/2022 3:02:25 AM	67025
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/25/2022 6:05:00 PM	67021
Surr: BFB	109	37.7-212		%Rec	1	4/25/2022 6:05:00 PM	67021
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/25/2022 6:05:00 PM	67021
Toluene	ND	0.049		mg/Kg	1	4/25/2022 6:05:00 PM	67021
Ethylbenzene	ND	0.049		mg/Kg	1	4/25/2022 6:05:00 PM	67021
Xylenes, Total	ND	0.098		mg/Kg	1	4/25/2022 6:05:00 PM	67021
Surr: 4-Bromofluorobenzene	87.7	70-130		%Rec	1	4/25/2022 6:05:00 PM	67021

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204986

Date Reported: 5/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-74 4'

Project: Avalanche Journal Battery

Collection Date: 4/20/2022 8:25:00 AM

Lab ID: 2204986-003

Matrix: SOIL

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	3300	150		mg/Kg	50	4/28/2022 2:24:01 PM	67120
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	49	9.9		mg/Kg	1	4/26/2022 5:39:24 PM	67025
Motor Oil Range Organics (MRO)	100	49		mg/Kg	1	4/26/2022 5:39:24 PM	67025
Surr: DNOP	107	51.1-141		%Rec	1	4/26/2022 5:39:24 PM	67025
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/25/2022 6:24:00 PM	67021
Surr: BFB	108	37.7-212		%Rec	1	4/25/2022 6:24:00 PM	67021
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/25/2022 6:24:00 PM	67021
Toluene	ND	0.049		mg/Kg	1	4/25/2022 6:24:00 PM	67021
Ethylbenzene	ND	0.049		mg/Kg	1	4/25/2022 6:24:00 PM	67021
Xylenes, Total	ND	0.099		mg/Kg	1	4/25/2022 6:24:00 PM	67021
Surr: 4-Bromofluorobenzene	89.0	70-130		%Rec	1	4/25/2022 6:24:00 PM	67021

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204986

Date Reported: 5/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-75 4'

Project: Avalanche Journal Battery

Collection Date: 4/20/2022 8:30:00 AM

Lab ID: 2204986-004

Matrix: SOIL

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	2200	60		mg/Kg	20	4/27/2022 7:26:43 PM	67120
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	170	9.9		mg/Kg	1	4/26/2022 6:06:34 PM	67025
Motor Oil Range Organics (MRO)	160	49		mg/Kg	1	4/26/2022 6:06:34 PM	67025
Surr: DNOP	103	51.1-141		%Rec	1	4/26/2022 6:06:34 PM	67025
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/25/2022 6:44:00 PM	67021
Surr: BFB	108	37.7-212		%Rec	1	4/25/2022 6:44:00 PM	67021
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/25/2022 6:44:00 PM	67021
Toluene	ND	0.049		mg/Kg	1	4/25/2022 6:44:00 PM	67021
Ethylbenzene	ND	0.049		mg/Kg	1	4/25/2022 6:44:00 PM	67021
Xylenes, Total	ND	0.097		mg/Kg	1	4/25/2022 6:44:00 PM	67021
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	4/25/2022 6:44:00 PM	67021

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204986

Date Reported: 5/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-76 4'

Project: Avalanche Journal Battery

Collection Date: 4/20/2022 8:35:00 AM

Lab ID: 2204986-005

Matrix: SOIL

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	2200	60		mg/Kg	20	4/27/2022 7:39:03 PM	67120
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	320	9.7		mg/Kg	1	4/26/2022 6:33:50 PM	67025
Motor Oil Range Organics (MRO)	270	49		mg/Kg	1	4/26/2022 6:33:50 PM	67025
Surr: DNOP	101	51.1-141		%Rec	1	4/26/2022 6:33:50 PM	67025
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/25/2022 7:04:00 PM	67021
Surr: BFB	109	37.7-212		%Rec	1	4/25/2022 7:04:00 PM	67021
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/25/2022 7:04:00 PM	67021
Toluene	ND	0.049		mg/Kg	1	4/25/2022 7:04:00 PM	67021
Ethylbenzene	ND	0.049		mg/Kg	1	4/25/2022 7:04:00 PM	67021
Xylenes, Total	ND	0.098		mg/Kg	1	4/25/2022 7:04:00 PM	67021
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	1	4/25/2022 7:04:00 PM	67021

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204986

Date Reported: 5/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-77 4'

Project: Avalanche Journal Battery

Collection Date: 4/20/2022 8:40:00 AM

Lab ID: 2204986-006

Matrix: SOIL

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	120	60		mg/Kg	20	4/27/2022 8:16:05 PM	67120
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/26/2022 5:02:54 AM	67025
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/26/2022 5:02:54 AM	67025
Surr: DNOP	87.4	51.1-141		%Rec	1	4/26/2022 5:02:54 AM	67025
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/25/2022 7:23:00 PM	67021
Surr: BFB	105	37.7-212		%Rec	1	4/25/2022 7:23:00 PM	67021
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/25/2022 7:23:00 PM	67021
Toluene	ND	0.050		mg/Kg	1	4/25/2022 7:23:00 PM	67021
Ethylbenzene	ND	0.050		mg/Kg	1	4/25/2022 7:23:00 PM	67021
Xylenes, Total	ND	0.10		mg/Kg	1	4/25/2022 7:23:00 PM	67021
Surr: 4-Bromofluorobenzene	88.7	70-130		%Rec	1	4/25/2022 7:23:00 PM	67021

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204986

Date Reported: 5/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-78 4

Project: Avalanche Journal Battery

Collection Date: 4/20/2022 8:45:00 AM

Lab ID: 2204986-007

Matrix: SOIL

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	510	60		mg/Kg	20	4/28/2022 12:35:22 AM	67123
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/26/2022 5:26:58 AM	67025
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/26/2022 5:26:58 AM	67025
Surr: DNOP	84.9	51.1-141		%Rec	1	4/26/2022 5:26:58 AM	67025
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/25/2022 7:43:00 PM	67021
Surr: BFB	104	37.7-212		%Rec	1	4/25/2022 7:43:00 PM	67021
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/25/2022 7:43:00 PM	67021
Toluene	ND	0.050		mg/Kg	1	4/25/2022 7:43:00 PM	67021
Ethylbenzene	ND	0.050		mg/Kg	1	4/25/2022 7:43:00 PM	67021
Xylenes, Total	ND	0.10		mg/Kg	1	4/25/2022 7:43:00 PM	67021
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	4/25/2022 7:43:00 PM	67021

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204986

Date Reported: 5/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-79 4'

Project: Avalanche Journal Battery

Collection Date: 4/20/2022 8:50:00 AM

Lab ID: 2204986-008

Matrix: SOIL

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	2200	150		mg/Kg	50	4/28/2022 2:36:26 PM	67123
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	43	10		mg/Kg	1	4/26/2022 5:51:07 AM	67025
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/26/2022 5:51:07 AM	67025
Surr: DNOP	97.0	51.1-141		%Rec	1	4/26/2022 5:51:07 AM	67025
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/25/2022 8:03:00 PM	67021
Surr: BFB	98.3	37.7-212		%Rec	1	4/25/2022 8:03:00 PM	67021
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/25/2022 8:03:00 PM	67021
Toluene	ND	0.049		mg/Kg	1	4/25/2022 8:03:00 PM	67021
Ethylbenzene	ND	0.049		mg/Kg	1	4/25/2022 8:03:00 PM	67021
Xylenes, Total	ND	0.099		mg/Kg	1	4/25/2022 8:03:00 PM	67021
Surr: 4-Bromofluorobenzene	82.9	70-130		%Rec	1	4/25/2022 8:03:00 PM	67021

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204986

Date Reported: 5/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-80 4'

Project: Avalanche Journal Battery

Collection Date: 4/20/2022 9:55:00 AM

Lab ID: 2204986-009

Matrix: SOIL

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	2200	150		mg/Kg	50	4/28/2022 2:48:51 PM	67123
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	380	9.7		mg/Kg	1	4/26/2022 7:01:14 PM	67025
Motor Oil Range Organics (MRO)	280	49		mg/Kg	1	4/26/2022 7:01:14 PM	67025
Surr: DNOP	94.8	51.1-141		%Rec	1	4/26/2022 7:01:14 PM	67025
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/25/2022 8:22:00 PM	67021
Surr: BFB	105	37.7-212		%Rec	1	4/25/2022 8:22:00 PM	67021
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/25/2022 8:22:00 PM	67021
Toluene	ND	0.049		mg/Kg	1	4/25/2022 8:22:00 PM	67021
Ethylbenzene	ND	0.049		mg/Kg	1	4/25/2022 8:22:00 PM	67021
Xylenes, Total	ND	0.099		mg/Kg	1	4/25/2022 8:22:00 PM	67021
Surr: 4-Bromofluorobenzene	83.6	70-130		%Rec	1	4/25/2022 8:22:00 PM	67021

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204986

Date Reported: 5/5/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-81 4'

Project: Avalanche Journal Battery

Collection Date: 4/20/2022 10:00:00 AM

Lab ID: 2204986-010

Matrix: SOIL

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	2200	59		mg/Kg	20	4/28/2022 1:12:25 AM	67123
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	10	9.6		mg/Kg	1	4/27/2022 4:52:14 PM	67034
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/27/2022 4:52:14 PM	67034
Surr: DNOP	91.4	51.1-141		%Rec	1	4/27/2022 4:52:14 PM	67034
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/25/2022 10:40:00 PM	67032
Surr: BFB	105	37.7-212		%Rec	1	4/25/2022 10:40:00 PM	67032
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/25/2022 10:40:00 PM	67032
Toluene	ND	0.049		mg/Kg	1	4/25/2022 10:40:00 PM	67032
Ethylbenzene	ND	0.049		mg/Kg	1	4/25/2022 10:40:00 PM	67032
Xylenes, Total	ND	0.098		mg/Kg	1	4/25/2022 10:40:00 PM	67032
Surr: 4-Bromofluorobenzene	85.7	70-130		%Rec	1	4/25/2022 10:40:00 PM	67032

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204986

05-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>MB-67123</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67123</b>	RunNo: <b>87579</b>								
Prep Date: <b>4/27/2022</b>	Analysis Date: <b>4/27/2022</b>	SeqNo: <b>3099437</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-67123</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67123</b>	RunNo: <b>87579</b>								
Prep Date: <b>4/27/2022</b>	Analysis Date: <b>4/27/2022</b>	SeqNo: <b>3099438</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.8	90	110			

Sample ID: <b>MB-67120</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67120</b>	RunNo: <b>87579</b>								
Prep Date: <b>4/27/2022</b>	Analysis Date: <b>4/27/2022</b>	SeqNo: <b>3099472</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-67120</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67120</b>	RunNo: <b>87579</b>								
Prep Date: <b>4/27/2022</b>	Analysis Date: <b>4/27/2022</b>	SeqNo: <b>3099473</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.8	90	110			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204986

05-May-22

**Client:** EOG  
**Project:** Avalanche Journal Battery

Sample ID: <b>LCS-67025</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>67025</b>		RunNo: <b>87499</b>							
Prep Date: <b>4/22/2022</b>	Analysis Date: <b>4/25/2022</b>		SeqNo: <b>3096435</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.6	68.9	135			
Surr: DNOP	3.9		5.000		77.7	51.1	141			

Sample ID: <b>MB-67025</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>67025</b>		RunNo: <b>87499</b>							
Prep Date: <b>4/22/2022</b>	Analysis Date: <b>4/25/2022</b>		SeqNo: <b>3096437</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.3		10.00		82.8	51.1	141			

Sample ID: <b>LCS-67034</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>67034</b>		RunNo: <b>87551</b>							
Prep Date: <b>4/25/2022</b>	Analysis Date: <b>4/27/2022</b>		SeqNo: <b>3099378</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	68.9	135			
Surr: DNOP	3.9		5.000		77.7	51.1	141			

Sample ID: <b>MB-67034</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>67034</b>		RunNo: <b>87551</b>							
Prep Date: <b>4/25/2022</b>	Analysis Date: <b>4/27/2022</b>		SeqNo: <b>3099380</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.4		10.00		83.7	51.1	141			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204986

05-May-22

**Client:** EOG  
**Project:** Avalanche Journal Battery

Sample ID: <b>lcs-67021</b>	SampType: <b>LCS</b>				TestCode: <b>EPA Method 8015D: Gasoline Range</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>67021</b>				RunNo: <b>87481</b>					
Prep Date: <b>4/22/2022</b>	Analysis Date: <b>4/25/2022</b>				SeqNo: <b>3095570</b>	Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	5.0	25.00	0	123	72.3	137			
Surr: BFB	2300		1000		233	37.7	212			S

Sample ID: <b>mb-67021</b>	SampType: <b>MBLK</b>				TestCode: <b>EPA Method 8015D: Gasoline Range</b>					
Client ID: <b>PBS</b>	Batch ID: <b>67021</b>				RunNo: <b>87481</b>					
Prep Date: <b>4/22/2022</b>	Analysis Date: <b>4/25/2022</b>				SeqNo: <b>3095571</b>	Units: <b>mg/Kg</b>				
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		110	37.7	212			

Sample ID: <b>lcs-67032</b>	SampType: <b>LCS</b>				TestCode: <b>EPA Method 8015D: Gasoline Range</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>67032</b>				RunNo: <b>87481</b>					
Prep Date: <b>4/23/2022</b>	Analysis Date: <b>4/25/2022</b>				SeqNo: <b>3095594</b>	Units: <b>mg/Kg</b>				
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	2300		1000		226	37.7	212			S

Sample ID: <b>mb-67032</b>	SampType: <b>MBLK</b>				TestCode: <b>EPA Method 8015D: Gasoline Range</b>					
Client ID: <b>PBS</b>	Batch ID: <b>67032</b>				RunNo: <b>87481</b>					
Prep Date: <b>4/23/2022</b>	Analysis Date: <b>4/25/2022</b>				SeqNo: <b>3095595</b>	Units: <b>mg/Kg</b>				
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		107	37.7	212			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204986

05-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>lcs-67021</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>67021</b>			RunNo: <b>87481</b>						
Prep Date: <b>4/22/2022</b>	Analysis Date: <b>4/25/2022</b>			SeqNo: <b>3095608</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.2	80	120			
Toluene	0.89	0.050	1.000	0	89.0	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.6	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.8	70	130			

Sample ID: <b>mb-67021</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>67021</b>			RunNo: <b>87481</b>						
Prep Date: <b>4/22/2022</b>	Analysis Date: <b>4/25/2022</b>			SeqNo: <b>3095609</b>		Units: <b>mg/Kg</b>				
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	0.89		1.000		89.0	70	130			

Sample ID: <b>lcs-67032</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>67032</b>			RunNo: <b>87481</b>						
Prep Date: <b>4/23/2022</b>	Analysis Date: <b>4/25/2022</b>			SeqNo: <b>3095632</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.7	80	120			
Toluene	0.97	0.050	1.000	0	96.7	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.6	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.0	70	130			

Sample ID: <b>mb-67032</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>67032</b>			RunNo: <b>87481</b>						
Prep Date: <b>4/23/2022</b>	Analysis Date: <b>4/25/2022</b>			SeqNo: <b>3095633</b>		Units: <b>mg/Kg</b>				
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		85.5	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 Quantitative Limit

S % Recovery outside of range due to dilution or matrix interference

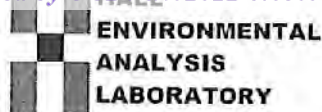
B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit



## Sample Log-In Check List

Client Name: EOG

Work Order Number: 2204986

RcptNo: 1

Received By: Cheyenne Cason

4/22/2022 8:00:00 AM

Completed By: Sean Livingston

4/22/2022 8:10:33 AM

Reviewed By: JR 4/22/22

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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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: CME 4/22/22

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good				
2	0.4	Good				









Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

May 02, 2022

Mike Moffitt

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX

RE: Avalanche Journal Battery

OrderNo.: 2204988

Dear Mike Moffitt:

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/22/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2204988

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-48 0-4'

Project: Avalanche Journal Battery

Collection Date: 4/20/2022 9:30:00 AM

Lab ID: 2204988-001

Matrix: SOIL

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	59		mg/Kg	20	4/28/2022 1:24:46 AM	67123
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/27/2022 5:03:06 PM	67034
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/27/2022 5:03:06 PM	67034
Surr: DNOP	88.8	51.1-141		%Rec	1	4/27/2022 5:03:06 PM	67034
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/25/2022 11:40:00 PM	67032
Surr: BFB	106	37.7-212		%Rec	1	4/25/2022 11:40:00 PM	67032
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/25/2022 11:40:00 PM	67032
Toluene	ND	0.049		mg/Kg	1	4/25/2022 11:40:00 PM	67032
Ethylbenzene	ND	0.049		mg/Kg	1	4/25/2022 11:40:00 PM	67032
Xylenes, Total	ND	0.098		mg/Kg	1	4/25/2022 11:40:00 PM	67032
Surr: 4-Bromofluorobenzene	87.6	70-130		%Rec	1	4/25/2022 11:40:00 PM	67032

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2204988

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-51 0-4'

Project: Avalanche Journal Battery

Collection Date: 4/20/2022 2:20:00 PM

Lab ID: 2204988-002

Matrix: SOIL

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/28/2022 2:26:27 AM	67123
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/27/2022 5:13:59 PM	67034
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/27/2022 5:13:59 PM	67034
Surr: DNOP	86.5	51.1-141		%Rec	1	4/27/2022 5:13:59 PM	67034
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/26/2022 12:39:00 AM	67032
Surr: BFB	105	37.7-212		%Rec	1	4/26/2022 12:39:00 AM	67032
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/26/2022 12:39:00 AM	67032
Toluene	ND	0.049		mg/Kg	1	4/26/2022 12:39:00 AM	67032
Ethylbenzene	ND	0.049		mg/Kg	1	4/26/2022 12:39:00 AM	67032
Xylenes, Total	ND	0.098		mg/Kg	1	4/26/2022 12:39:00 AM	67032
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	4/26/2022 12:39:00 AM	67032

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204988

Date Reported: 5/2/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-52 0-4'

Project: Avalanche Journal Battery

Collection Date: 4/20/2022 2:25:00 PM

Lab ID: 2204988-003

Matrix: SOIL

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	61		mg/Kg	20	4/28/2022 2:38:47 AM	67123
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/27/2022 5:46:32 PM	67034
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/27/2022 5:46:32 PM	67034
Surr: DNOP	89.0	51.1-141		%Rec	1	4/27/2022 5:46:32 PM	67034
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/26/2022 12:58:00 AM	67032
Surr: BFB	105	37.7-212		%Rec	1	4/26/2022 12:58:00 AM	67032
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/26/2022 12:58:00 AM	67032
Toluene	ND	0.049		mg/Kg	1	4/26/2022 12:58:00 AM	67032
Ethylbenzene	ND	0.049		mg/Kg	1	4/26/2022 12:58:00 AM	67032
Xylenes, Total	ND	0.098		mg/Kg	1	4/26/2022 12:58:00 AM	67032
Surr: 4-Bromofluorobenzene	85.3	70-130		%Rec	1	4/26/2022 12:58:00 AM	67032

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 220498802-May-22

Client: EOG

Project: Avalanche Journal Battery

Sample ID: <b>MB-67123</b>		SampType: <b>mblk</b>		TestCode: <b>EPA Method 300.0: Anions</b>						
Client ID: <b>PBS</b>		Batch ID: <b>67123</b>		RunNo: <b>87579</b>						
Prep Date: <b>4/27/2022</b>		Analysis Date: <b>4/27/2022</b>		SeqNo: <b>3099437</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-67123</b>		SampType: <b>lcs</b>		TestCode: <b>EPA Method 300.0: Anions</b>						
Client ID: <b>LCSS</b>		Batch ID: <b>67123</b>		RunNo: <b>87579</b>						
Prep Date: <b>4/27/2022</b>		Analysis Date: <b>4/27/2022</b>		SeqNo: <b>3099438</b>			Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.8	90	110			

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative 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

Page 4 of 7

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

WO#: 2204988

02-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>LCS-67034</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>67034</b>			RunNo: <b>87551</b>						
Prep Date: <b>4/25/2022</b>	Analysis Date: <b>4/27/2022</b>			SeqNo: <b>3099378</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	68.9	135			
Surr: DNOP	3.9		5.000		77.7	51.1	141			

Sample ID: <b>MB-67034</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>67034</b>			RunNo: <b>87551</b>						
Prep Date: <b>4/25/2022</b>	Analysis Date: <b>4/27/2022</b>			SeqNo: <b>3099380</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.4		10.00		83.7	51.1	141			

Sample ID: <b>MB-67158</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>PBS</b>	Batch ID: <b>67158</b>			RunNo: <b>87609</b>						
Prep Date: <b>4/29/2022</b>	Analysis Date: <b>4/29/2022</b>			SeqNo: <b>3102248</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.7		10.00		87.0	51.1	141			

Sample ID: <b>LCS-67158</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>67158</b>			RunNo: <b>87609</b>						
Prep Date: <b>4/29/2022</b>	Analysis Date: <b>4/29/2022</b>			SeqNo: <b>3102249</b>		Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.1		5.000		81.8	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 Quantitative 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#: 2204988

02-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>lcs-67032</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>67032</b>		RunNo: <b>87481</b>							
Prep Date: <b>4/23/2022</b>	Analysis Date: <b>4/25/2022</b>		SeqNo: <b>3095594</b>		Units: <b>mg/Kg</b>					
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	2300		1000		226	37.7	212			S

Sample ID: <b>mb-67032</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>67032</b>		RunNo: <b>87481</b>							
Prep Date: <b>4/23/2022</b>	Analysis Date: <b>4/25/2022</b>		SeqNo: <b>3095595</b>		Units: <b>mg/Kg</b>					
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		107	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 Quantitative 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#: 2204988

02-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

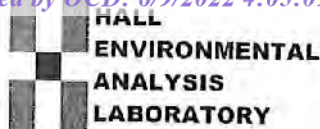
Sample ID: <b>lcs-66998</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66998</b>	RunNo: <b>87480</b>								
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/25/2022</b>	SeqNo: <b>3095535</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: <b>lcs-67032</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67032</b>	RunNo: <b>87481</b>								
Prep Date: <b>4/23/2022</b>	Analysis Date: <b>4/25/2022</b>	SeqNo: <b>3095632</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.7	80	120			
Toluene	0.97	0.050	1.000	0	96.7	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.6	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.0	70	130			

Sample ID: <b>mb-67032</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67032</b>	RunNo: <b>87481</b>								
Prep Date: <b>4/23/2022</b>	Analysis Date: <b>4/25/2022</b>	SeqNo: <b>3095633</b>	Units: <b>mg/Kg</b>							
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		85.5	70	130			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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: 2204988

RcptNo: 1

Received By: Cheyenne Cason

4/22/2022 8:00:00 AM

*Cason*

Completed By: Sean Livingston

4/22/2022 8:22:50 AM

*Sean Livingston*Reviewed By: *gn 4/22/22*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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐  
 5. Sample(s) in proper container(s)? Yes ☒ No ☐  
 6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐  
 7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐  
 8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐  
 9. Received at least 1 vial with headspace  $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒  
 10. Were any sample containers received broken? Yes ☐ No ☒  
 11. Does paperwork match bottle labels?  
 (Note discrepancies on chain of custody) Yes ☒ No ☐  
 12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐  
 13. Is it clear what analyses were requested? Yes ☒ No ☐  
 14. Were all holding times able to be met?  
 (If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

( $<2$  or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by *Cmc 4/22/22*

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good				
2	0.4	Good				



**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

<b>Chain-of-Custody Record</b>						Turn-Around Time:	
Client: <u>EOC, Chase Seftle</u>			<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush <u>5 Days</u>				
Mailing Address:			Project Name: <u>Avalanche Journal Battery</u>				
Phone #:			Project #: <u>22E-00347</u>				
email or Fax#:			Project Manager: <u>Michael Moffitt</u>				
QAV/QC Package: <input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation) Accreditation: <input type="checkbox"/> Az Compliance <input type="checkbox"/> NELAC <input type="checkbox"/> Other <input type="checkbox"/> EDD (Type) _____			Sampler:				
			On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		# of Coolers: <u>2</u> <u>2.1 - 0 = 2.1</u> (°C)		
			Cooler Temp (including CF): <u>0.4 - 0 = 0.4</u> (°C)				
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	
4-20-20	09:30	Soil	WES22-48 #04	1 Jar		2204987	201
4-20-20	14:20	Soil	WES22-51 0-4'	1 Jar			202
4-20-20	14:25	Soil	WES22-52 0-4'	1 Jar			203
Relinquished by: <u>[Signature]</u>			Received by: <u>[Signature]</u>		Via: <u>Hand Carried</u>		Date / Time: <u>4/20/22</u>
Date: <u>4-20-22</u> Time: <u>08:00</u>			Date: <u>4/20/22</u> Time: <u>1900</u>				
Relinquished by: <u>[Signature]</u>			Received by: <u>[Signature]</u>		Via: <u>Hand Carried</u>		Date / Time: <u>4/20/22</u>
Date: <u>4/20/22</u> Time: <u>1900</u>			Date: <u>4/20/22</u> Time: <u>1900</u>				

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  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

May 04, 2022

Mike Moffitt

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Avalanche Journal Battery

OrderNo.: 2204A31

Dear Mike Moffitt:

Hall Environmental Analysis Laboratory received 8 sample(s) on 4/23/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2204A31

Date Reported: 5/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-82 4'

Project: Avalanche Journal Battery

Collection Date: 4/21/2022 8:15:00 AM

Lab ID: 2204A31-001

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/28/2022 1:01:23 AM	67129
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	0.096		mg/Kg	1	4/28/2022 4:07:09 PM	67074
Motor Oil Range Organics (MRO)	ND	0.48		mg/Kg	1	4/28/2022 4:07:09 PM	67074
Surr: DNOP	97.8	51.1-141		%Rec	1	4/28/2022 4:07:09 PM	67074
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/26/2022 7:31:00 PM	67051
Surr: BFB	106	37.7-212		%Rec	1	4/26/2022 7:31:00 PM	67051
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/26/2022 7:31:00 PM	67051
Toluene	ND	0.048		mg/Kg	1	4/26/2022 7:31:00 PM	67051
Ethylbenzene	ND	0.048		mg/Kg	1	4/26/2022 7:31:00 PM	67051
Xylenes, Total	ND	0.096		mg/Kg	1	4/26/2022 7:31:00 PM	67051
Surr: 4-Bromofluorobenzene	87.2	70-130		%Rec	1	4/26/2022 7:31:00 PM	67051

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204A31

Date Reported: 5/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-83 4'

Project: Avalanche Journal Battery

Collection Date: 4/21/2022 8:20:00 AM

Lab ID: 2204A31-002

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	460	60		mg/Kg	20	4/28/2022 3:26:06 PM	67141
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	17	9.6		mg/Kg	1	4/28/2022 4:20:41 PM	67074
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/28/2022 4:20:41 PM	67074
Surr: DNOP	101	51.1-141		%Rec	1	4/28/2022 4:20:41 PM	67074
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/26/2022 7:50:00 PM	67051
Surr: BFB	102	37.7-212		%Rec	1	4/26/2022 7:50:00 PM	67051
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/26/2022 7:50:00 PM	67051
Toluene	ND	0.050		mg/Kg	1	4/26/2022 7:50:00 PM	67051
Ethylbenzene	ND	0.050		mg/Kg	1	4/26/2022 7:50:00 PM	67051
Xylenes, Total	ND	0.10		mg/Kg	1	4/26/2022 7:50:00 PM	67051
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	4/26/2022 7:50:00 PM	67051

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2204A31

Date Reported: 5/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-84 4'

Project: Avalanche Journal Battery

Collection Date: 4/21/2022 8:25:00 AM

Lab ID: 2204A31-003

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	1200	60		mg/Kg	20	4/28/2022 3:38:31 PM	67141
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	83	9.7		mg/Kg	1	4/29/2022 3:40:08 PM	67074
Motor Oil Range Organics (MRO)	56	49		mg/Kg	1	4/29/2022 3:40:08 PM	67074
Surr: DNOP	112	51.1-141		%Rec	1	4/29/2022 3:40:08 PM	67074
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	4/26/2022 9:10:00 PM	67051
Surr: BFB	102	37.7-212		%Rec	5	4/26/2022 9:10:00 PM	67051
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.12		mg/Kg	5	4/26/2022 9:10:00 PM	67051
Toluene	ND	0.24		mg/Kg	5	4/26/2022 9:10:00 PM	67051
Ethylbenzene	ND	0.24		mg/Kg	5	4/26/2022 9:10:00 PM	67051
Xylenes, Total	ND	0.48		mg/Kg	5	4/26/2022 9:10:00 PM	67051
Surr: 4-Bromofluorobenzene	84.8	70-130		%Rec	5	4/26/2022 9:10:00 PM	67051

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204A31

Date Reported: 5/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-85 4'

Project: Avalanche Journal Battery

Collection Date: 4/21/2022 9:35:00 AM

Lab ID: 2204A31-004

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	750	61		mg/Kg	20	4/28/2022 4:15:46 PM	67141
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/28/2022 4:47:42 PM	67074
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/28/2022 4:47:42 PM	67074
Surr: DNOP	98.7	51.1-141		%Rec	1	4/28/2022 4:47:42 PM	67074
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/26/2022 9:29:00 PM	67051
Surr: BFB	105	37.7-212		%Rec	1	4/26/2022 9:29:00 PM	67051
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/26/2022 9:29:00 PM	67051
Toluene	ND	0.047		mg/Kg	1	4/26/2022 9:29:00 PM	67051
Ethylbenzene	ND	0.047		mg/Kg	1	4/26/2022 9:29:00 PM	67051
Xylenes, Total	ND	0.094		mg/Kg	1	4/26/2022 9:29:00 PM	67051
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	4/26/2022 9:29:00 PM	67051

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204A31

Date Reported: 5/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-86 4'

Project: Avalanche Journal Battery

Collection Date: 4/21/2022 9:40:00 AM

Lab ID: 2204A31-005

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	390	60		mg/Kg	20	4/28/2022 4:28:10 PM	67141
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/28/2022 5:01:27 PM	67074
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/28/2022 5:01:27 PM	67074
Surr: DNOP	106	51.1-141		%Rec	1	4/28/2022 5:01:27 PM	67074
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/26/2022 9:49:00 PM	67051
Surr: BFB	110	37.7-212		%Rec	1	4/26/2022 9:49:00 PM	67051
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/26/2022 9:49:00 PM	67051
Toluene	ND	0.047		mg/Kg	1	4/26/2022 9:49:00 PM	67051
Ethylbenzene	ND	0.047		mg/Kg	1	4/26/2022 9:49:00 PM	67051
Xylenes, Total	ND	0.094		mg/Kg	1	4/26/2022 9:49:00 PM	67051
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	4/26/2022 9:49:00 PM	67051

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204A31

Date Reported: 5/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-87 4'

Project: Avalanche Journal Battery

Collection Date: 4/21/2022 9:45:00 AM

Lab ID: 2204A31-006

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LRN
Chloride	1900	150		mg/Kg	50	4/29/2022 11:46:50 AM	67141
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	4/28/2022 5:14:58 PM	67074
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/28/2022 5:14:58 PM	67074
Surr: DNOP	112	51.1-141		%Rec	1	4/28/2022 5:14:58 PM	67074
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/26/2022 10:08:00 PM	67051
Surr: BFB	102	37.7-212		%Rec	1	4/26/2022 10:08:00 PM	67051
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/26/2022 10:08:00 PM	67051
Toluene	ND	0.047		mg/Kg	1	4/26/2022 10:08:00 PM	67051
Ethylbenzene	ND	0.047		mg/Kg	1	4/26/2022 10:08:00 PM	67051
Xylenes, Total	ND	0.095		mg/Kg	1	4/26/2022 10:08:00 PM	67051
Surr: 4-Bromofluorobenzene	84.1	70-130		%Rec	1	4/26/2022 10:08:00 PM	67051

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204A31

Date Reported: 5/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-88 4'

Project: Avalanche Journal Battery

Collection Date: 4/21/2022 9:50:00 AM

Lab ID: 2204A31-007

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	100	60		mg/Kg	20	4/28/2022 5:17:49 PM	67141
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/29/2022 5:39:21 PM	67096
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/29/2022 5:39:21 PM	67096
Surr: DNOP	88.8	51.1-141		%Rec	1	4/29/2022 5:39:21 PM	67096
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/26/2022 10:28:00 PM	67051
Surr: BFB	104	37.7-212		%Rec	1	4/26/2022 10:28:00 PM	67051
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/26/2022 10:28:00 PM	67051
Toluene	ND	0.049		mg/Kg	1	4/26/2022 10:28:00 PM	67051
Ethylbenzene	ND	0.049		mg/Kg	1	4/26/2022 10:28:00 PM	67051
Xylenes, Total	ND	0.099		mg/Kg	1	4/26/2022 10:28:00 PM	67051
Surr: 4-Bromofluorobenzene	87.5	70-130		%Rec	1	4/26/2022 10:28:00 PM	67051

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204A31

Date Reported: 5/4/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-89 4'

Project: Avalanche Journal Battery

Collection Date: 4/21/2022 9:55:00 AM

Lab ID: 2204A31-008

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LRN
Chloride	2200	150		mg/Kg	50	4/29/2022 11:59:12 AM	67141
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/29/2022 6:50:25 PM	67096
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/29/2022 6:50:25 PM	67096
Surr: DNOP	95.8	51.1-141		%Rec	1	4/29/2022 6:50:25 PM	67096
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/26/2022 10:48:00 PM	67051
Surr: BFB	110	37.7-212		%Rec	1	4/26/2022 10:48:00 PM	67051
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/26/2022 10:48:00 PM	67051
Toluene	ND	0.046		mg/Kg	1	4/26/2022 10:48:00 PM	67051
Ethylbenzene	ND	0.046		mg/Kg	1	4/26/2022 10:48:00 PM	67051
Xylenes, Total	ND	0.093		mg/Kg	1	4/26/2022 10:48:00 PM	67051
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	4/26/2022 10:48:00 PM	67051

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 8 of 12

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

WO#: 2204A31

04-May-22

**Client:** EOG  
**Project:** Avalanche Journal Battery

Sample ID: <b>MB-67129</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67129</b>	RunNo: <b>87560</b>								
Prep Date: <b>4/27/2022</b>	Analysis Date: <b>4/27/2022</b>	SeqNo: <b>3099548</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-67129</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67129</b>	RunNo: <b>87560</b>								
Prep Date: <b>4/27/2022</b>	Analysis Date: <b>4/27/2022</b>	SeqNo: <b>3099549</b>	Units: <b>mg/Kg</b>							
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			

Sample ID: <b>MB-67141</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67141</b>	RunNo: <b>87612</b>								
Prep Date: <b>4/28/2022</b>	Analysis Date: <b>4/28/2022</b>	SeqNo: <b>3101187</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-67141</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67141</b>	RunNo: <b>87612</b>								
Prep Date: <b>4/28/2022</b>	Analysis Date: <b>4/28/2022</b>	SeqNo: <b>3101188</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.4	90	110			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204A31

04-May-22

**Client:** EOG  
**Project:** Avalanche Journal Battery

Sample ID: <b>MB-67074</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67074</b>	RunNo: <b>87554</b>								
Prep Date: <b>4/26/2022</b>	Analysis Date: <b>4/27/2022</b>	SeqNo: <b>3098151</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.4	51.1	141			

Sample ID: <b>LCS-67074</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67074</b>	RunNo: <b>87554</b>								
Prep Date: <b>4/26/2022</b>	Analysis Date: <b>4/27/2022</b>	SeqNo: <b>3098152</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.2	68.9	135			
Surr: DNOP	4.3		5.000		86.7	51.1	141			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204A31

04-May-22

**Client:** EOG  
**Project:** Avalanche Journal Battery

Sample ID: <b>lcs-67051</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>67051</b>			RunNo: <b>87523</b>						
Prep Date: <b>4/25/2022</b>	Analysis Date: <b>4/26/2022</b>			SeqNo: <b>3097034</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	118	72.3	137			
Surr: BFB	2400		1000		238	37.7	212			S

Sample ID: <b>mb-67051</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>67051</b>			RunNo: <b>87523</b>						
Prep Date: <b>4/25/2022</b>	Analysis Date: <b>4/26/2022</b>			SeqNo: <b>3097035</b>		Units: <b>mg/Kg</b>				
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			

**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 Quantitative 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#: 2204A31

04-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>lcs-67051</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>67051</b>			RunNo: <b>87523</b>						
Prep Date: <b>4/25/2022</b>	Analysis Date: <b>4/26/2022</b>			SeqNo: <b>3097084</b>	Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.9	80	120			
Toluene	0.94	0.050	1.000	0	94.4	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.7	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		87.9	70	130			

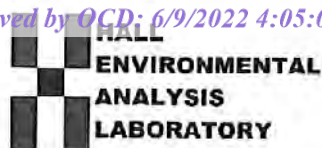
Sample ID: <b>mb-67051</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>67051</b>			RunNo: <b>87523</b>						
Prep Date: <b>4/25/2022</b>	Analysis Date: <b>4/26/2022</b>			SeqNo: <b>3097085</b>	Units: <b>mg/Kg</b>					
Analyte	Result	PQL	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		85.5	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 Quantitative 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

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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: 2204A31

RcptNo: 1

Received By: Juan Rojas 4/23/2022 8:25:00 AM

Completed By: Juan Rojas 4/23/2022 9:29:24 AM

Reviewed By: KPA 4/25/22

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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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:

(&lt;2 or &gt;12 unless noted)

Adjusted?

Checked by: JPA 4/25/22

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good				
2	1.3	Good				



## Chain-of-Custody Record

Client: EDG, Chase Seale

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)

Accreditation:

☐ Az Compliance☐ NELAC☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard ☒ Rush 5 Days

Project Name:

Avalanche Journal Battery

Project #:

22E-00347

Project Manager:

Michael MoffattSampler: L. PulmanOn Ice: ☒ Yes ☐ No# of Coolers: 2Cooler Temp (including CF): 0.9-0.9 (°C)

Container Type and #

Preservative Type

HEAL No.

-001

-002

-003

-004

-005

-006

-007

-008

Date:

Time:

Relinquished by:

Date:

Time:

Relinquished by:

Date:

Time:

Relinquished by:

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## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

TPH:8015D(GRO / DRO / MRO)

BTEX / MTBE / TMB's (8021)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

(Cl, F, Br, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>)

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Remarks:

Received by: Chase Date: 4/22/22 Time: 800Received by: Chase Date: 4/23/22 Time: 8:00



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

May 06, 2022

Mike Moffitt

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Avalanche Journal Battery

OrderNo.: 2204A38

Dear Mike Moffitt:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/23/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2204A38

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-53 0-4'

Project: Avalanche Journal Battery

Collection Date: 4/21/2022 9:10:00 AM

Lab ID: 2204A38-001

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/29/2022 7:24:30 PM	67162
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/30/2022 12:35:01 PM	67098
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/30/2022 12:35:01 PM	67098
Surr: DNOP	96.2	51.1-141		%Rec	1	4/30/2022 12:35:01 PM	67098
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/28/2022 3:27:51 AM	67073
Surr: BFB	102	37.7-212		%Rec	1	4/28/2022 3:27:51 AM	67073
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/28/2022 3:27:51 AM	67073
Toluene	ND	0.049		mg/Kg	1	4/28/2022 3:27:51 AM	67073
Ethylbenzene	ND	0.049		mg/Kg	1	4/28/2022 3:27:51 AM	67073
Xylenes, Total	ND	0.099		mg/Kg	1	4/28/2022 3:27:51 AM	67073
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	4/28/2022 3:27:51 AM	67073

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204A38

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-54 4-5'

Project: Avalanche Journal Battery

Collection Date: 4/21/2022 12:45:00 PM

Lab ID: 2204A38-002

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LRN
Chloride	1200	60		mg/Kg	20	4/29/2022 3:39:01 PM	67170
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	33	9.7		mg/Kg	1	5/2/2022 10:41:59 AM	67098
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/2/2022 10:41:59 AM	67098
Surr: DNOP	89.3	51.1-141		%Rec	1	5/2/2022 10:41:59 AM	67098
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/28/2022 3:51:25 AM	67073
Surr: BFB	96.3	37.7-212		%Rec	1	4/28/2022 3:51:25 AM	67073
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/28/2022 3:51:25 AM	67073
Toluene	ND	0.050		mg/Kg	1	4/28/2022 3:51:25 AM	67073
Ethylbenzene	ND	0.050		mg/Kg	1	4/28/2022 3:51:25 AM	67073
Xylenes, Total	ND	0.099		mg/Kg	1	4/28/2022 3:51:25 AM	67073
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	1	4/28/2022 3:51:25 AM	67073

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204A38

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-55 4-5'

Project: Avalanche Journal Battery

Collection Date: 4/21/2022 12:50:00 PM

Lab ID: 2204A38-003

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LRN
Chloride	740	60		mg/Kg	20	4/29/2022 3:51:22 PM	67170
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/30/2022 1:22:32 PM	67098
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/30/2022 1:22:32 PM	67098
Surr: DNOP	105	51.1-141		%Rec	1	4/30/2022 1:22:32 PM	67098
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/28/2022 4:15:02 AM	67073
Surr: BFB	99.8	37.7-212		%Rec	1	4/28/2022 4:15:02 AM	67073
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/28/2022 4:15:02 AM	67073
Toluene	ND	0.049		mg/Kg	1	4/28/2022 4:15:02 AM	67073
Ethylbenzene	ND	0.049		mg/Kg	1	4/28/2022 4:15:02 AM	67073
Xylenes, Total	ND	0.099		mg/Kg	1	4/28/2022 4:15:02 AM	67073
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	4/28/2022 4:15:02 AM	67073

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204A38

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-56 4-5'

Project: Avalanche Journal Battery

Collection Date: 4/21/2022 12:55:00 PM

Lab ID: 2204A38-004

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	3000	150		mg/Kg	50	5/2/2022 6:45:35 PM	67170
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/30/2022 2:10:00 PM	67098
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/30/2022 2:10:00 PM	67098
Surr: DNOP	110	51.1-141		%Rec	1	4/30/2022 2:10:00 PM	67098
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/28/2022 4:38:38 AM	67073
Surr: BFB	94.4	37.7-212		%Rec	1	4/28/2022 4:38:38 AM	67073
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/28/2022 4:38:38 AM	67073
Toluene	ND	0.050		mg/Kg	1	4/28/2022 4:38:38 AM	67073
Ethylbenzene	ND	0.050		mg/Kg	1	4/28/2022 4:38:38 AM	67073
Xylenes, Total	ND	0.099		mg/Kg	1	4/28/2022 4:38:38 AM	67073
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	4/28/2022 4:38:38 AM	67073

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 4 of 10



## Analytical Report

Lab Order 2204A38

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-58 0-4'

Project: Avalanche Journal Battery

Collection Date: 4/21/2022 1:50:00 PM

Lab ID: 2204A38-005

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LRN
Chloride	ND	60		mg/Kg	20	4/29/2022 5:05:27 PM	67170
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	4/30/2022 2:33:50 PM	67098
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/30/2022 2:33:50 PM	67098
Surr: DNOP	103	51.1-141		%Rec	1	4/30/2022 2:33:50 PM	67098
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/28/2022 5:02:12 AM	67073
Surr: BFB	96.9	37.7-212		%Rec	1	4/28/2022 5:02:12 AM	67073
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/28/2022 5:02:12 AM	67073
Toluene	ND	0.049		mg/Kg	1	4/28/2022 5:02:12 AM	67073
Ethylbenzene	ND	0.049		mg/Kg	1	4/28/2022 5:02:12 AM	67073
Xylenes, Total	ND	0.098		mg/Kg	1	4/28/2022 5:02:12 AM	67073
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	4/28/2022 5:02:12 AM	67073

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2204A38

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-59 0-4'

Project: Avalanche Journal Battery

Collection Date: 4/21/2022 1:55:00 PM

Lab ID: 2204A38-006

Matrix: SOIL

Received Date: 4/23/2022 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LRN
Chloride	ND	60		mg/Kg	20	4/29/2022 5:17:48 PM	67170
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/30/2022 2:57:47 PM	67098
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/30/2022 2:57:47 PM	67098
Surr: DNOP	104	51.1-141		%Rec	1	4/30/2022 2:57:47 PM	67098
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/28/2022 9:50:59 AM	67073
Surr: BFB	97.8	37.7-212		%Rec	1	4/28/2022 9:50:59 AM	67073
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/28/2022 9:50:59 AM	67073
Toluene	ND	0.048		mg/Kg	1	4/28/2022 9:50:59 AM	67073
Ethylbenzene	ND	0.048		mg/Kg	1	4/28/2022 9:50:59 AM	67073
Xylenes, Total	ND	0.096		mg/Kg	1	4/28/2022 9:50:59 AM	67073
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	4/28/2022 9:50:59 AM	67073

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204A38

06-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>MB-67170</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67170</b>	RunNo: <b>87647</b>								
Prep Date: <b>4/29/2022</b>	Analysis Date: <b>4/29/2022</b>	SeqNo: <b>3102914</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-67170</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67170</b>	RunNo: <b>87647</b>								
Prep Date: <b>4/29/2022</b>	Analysis Date: <b>4/29/2022</b>	SeqNo: <b>3102915</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.4	90	110			

Sample ID: <b>MB-67162</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67162</b>	RunNo: <b>87634</b>								
Prep Date: <b>4/29/2022</b>	Analysis Date: <b>4/29/2022</b>	SeqNo: <b>3103125</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-67162</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67162</b>	RunNo: <b>87634</b>								
Prep Date: <b>4/29/2022</b>	Analysis Date: <b>4/29/2022</b>	SeqNo: <b>3103126</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.9	90	110			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204A38

06-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>MB-67098</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67098</b>	RunNo: <b>87641</b>								
Prep Date: <b>4/27/2022</b>	Analysis Date: <b>4/29/2022</b>	SeqNo: <b>3102838</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	51.1	141			

Sample ID: <b>LCS-67098</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67098</b>	RunNo: <b>87641</b>								
Prep Date: <b>4/27/2022</b>	Analysis Date: <b>4/29/2022</b>	SeqNo: <b>3102841</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	84.8	68.9	135			
Surr: DNOP	5.1		5.000		103	51.1	141			

Sample ID: <b>MB-67164</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67164</b>	RunNo: <b>87649</b>								
Prep Date: <b>4/29/2022</b>	Analysis Date: <b>5/2/2022</b>	SeqNo: <b>3103102</b> Units: <b>%Rec</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.0		10.00		89.8	51.1	141			

Sample ID: <b>LCS-67164</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67164</b>	RunNo: <b>87649</b>								
Prep Date: <b>4/29/2022</b>	Analysis Date: <b>5/2/2022</b>	SeqNo: <b>3103103</b> Units: <b>%Rec</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.2		5.000		63.2	51.1	141			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204A38

06-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>mb-67073</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67073</b>	RunNo: <b>87547</b>								
Prep Date: <b>4/26/2022</b>	Analysis Date: <b>4/27/2022</b>	SeqNo: <b>3098815</b>	Units: <b>mg/Kg</b>							
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		101	37.7	212			

Sample ID: <b>lcs-67073</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67073</b>	RunNo: <b>87547</b>								
Prep Date: <b>4/26/2022</b>	Analysis Date: <b>4/27/2022</b>	SeqNo: <b>3098816</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	106	72.3	137			
Surr: BFB	2200		1000		216	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 Quantitative 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#: 2204A38

06-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

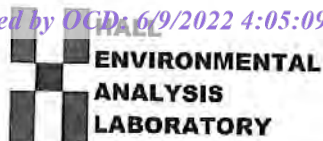
Sample ID: <b>mb-67073</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>67073</b>		RunNo: <b>87547</b>							
Prep Date: <b>4/26/2022</b>	Analysis Date: <b>4/27/2022</b>		SeqNo: <b>3098863</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	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	0.98		1.000		97.6	70	130			

Sample ID: <b>LCS-67073</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>67073</b>		RunNo: <b>87547</b>							
Prep Date: <b>4/26/2022</b>	Analysis Date: <b>4/27/2022</b>		SeqNo: <b>3098864</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.4	80	120			
Toluene	0.95	0.050	1.000	0	95.1	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		





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: 2204A38

RcptNo: 1

Received By: Juan Rojas

4/23/2022 8:25:00 AM

*Huan Rojas*

Completed By: Sean Livingston

4/25/2022 9:08:33 AM

*S. Livingston*Reviewed By: *JA 4/25/22*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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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: *KPA 4/25/22*

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good				
2	1.3	Good				

## Chain-of-Custody Record

Client: EOC, Chavez, Seattle

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC☐ Other☐ EDD (Type)

Project Manager:

Michael Moffitt

Sampler:

L. HoffmanOn Ice: ☒ Yes ☐ No# of Coolers: 2Cooler Temp (including OF): 6.9 + 0 - 0.9 (°C)

Container Type and #

Preservative Type

HEAL No.

22001A38

001

002

003

004

005

006

007

008

009

010

011

012

013

014

015

016

017

018

019

020

021

022

023

024

Project Name:

Avon Lake Journal Boregny

Project #:

226-00347

Project Manager:

Michael Moffitt

Sampler:

L. HoffmanOn Ice: ☒ Yes ☐ No# of Coolers: 2Cooler Temp (including OF): 6.9 + 0 - 0.9 (°C)

Container Type and #

Preservative Type

HEAL No.

22001A38

001

002

003

004

005

006

007

008

009

010

011

012

013

014

015

016

017

018

019

020

021

022

023

024

Remarks:

Received by: Admire Date: 4/22/22 Time: 800Received by: Admire Date: 4/22/22 Time: 800Received by: Admire Date: 4/22/22 Time: 800Received by: Admire Date: 4/22/22 Time: 800Received by: Admire Date: 4/22/22 Time: 800Received by: Admire Date: 4/22/22 Time: 800Received by: Admire Date: 4/22/22 Time: 800Received by: Admire Date: 4/22/22 Time: 800Received by: Admire Date: 4/22/22 Time: 800

## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

CF, Br, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

May 06, 2022

Mike Moffitt

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Avalanche Journal Battery

OrderNo.: 2204A86

Dear Mike Moffitt:

Hall Environmental Analysis Laboratory received 7 sample(s) on 4/26/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2204A86

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-90 4'

Project: Avalanche Journal Battery

Collection Date: 4/22/2022 9:40:00 AM

Lab ID: 2204A86-001

Matrix: SOIL

Received Date: 4/26/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	1500	60		mg/Kg	20	5/2/2022 9:02:50 PM	67209
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/28/2022 4:33:40 PM	67090
Surr: BFB	93.5	70-130		%Rec	1	4/28/2022 4:33:40 PM	67090
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/28/2022 9:36:02 PM	67099
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/28/2022 9:36:02 PM	67099
Surr: DNOP	99.7	51.1-141		%Rec	1	4/28/2022 9:36:02 PM	67099
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/28/2022 4:33:40 PM	67090
Toluene	ND	0.049		mg/Kg	1	4/28/2022 4:33:40 PM	67090
Ethylbenzene	ND	0.049		mg/Kg	1	4/28/2022 4:33:40 PM	67090
Xylenes, Total	ND	0.098		mg/Kg	1	4/28/2022 4:33:40 PM	67090
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	4/28/2022 4:33:40 PM	67090
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	4/28/2022 4:33:40 PM	67090
Surr: Dibromofluoromethane	108	70-130		%Rec	1	4/28/2022 4:33:40 PM	67090
Surr: Toluene-d8	100	70-130		%Rec	1	4/28/2022 4:33:40 PM	67090

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204A86

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-91 4'

Project: Avalanche Journal Battery

Collection Date: 4/22/2022 9:45:00 AM

Lab ID: 2204A86-002

Matrix: SOIL

Received Date: 4/26/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	ND	60		mg/Kg	20	5/2/2022 9:15:11 PM	67209
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/28/2022 5:00:45 PM	67090
Surr: BFB	99.4	70-130		%Rec	1	4/28/2022 5:00:45 PM	67090
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/28/2022 10:03:36 PM	67099
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/28/2022 10:03:36 PM	67099
Surr: DNOP	94.2	51.1-141		%Rec	1	4/28/2022 10:03:36 PM	67099
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/28/2022 5:00:45 PM	67090
Toluene	ND	0.049		mg/Kg	1	4/28/2022 5:00:45 PM	67090
Ethylbenzene	ND	0.049		mg/Kg	1	4/28/2022 5:00:45 PM	67090
Xylenes, Total	ND	0.097		mg/Kg	1	4/28/2022 5:00:45 PM	67090
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	4/28/2022 5:00:45 PM	67090
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	4/28/2022 5:00:45 PM	67090
Surr: Dibromofluoromethane	115	70-130		%Rec	1	4/28/2022 5:00:45 PM	67090
Surr: Toluene-d8	108	70-130		%Rec	1	4/28/2022 5:00:45 PM	67090

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204A86

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-92 4'

Project: Avalanche Journal Battery

Collection Date: 4/22/2022 9:50:00 AM

Lab ID: 2204A86-003

Matrix: SOIL

Received Date: 4/26/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	ND	60		mg/Kg	20	5/2/2022 9:27:32 PM	67209
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/28/2022 6:21:55 PM	67090
Surr: BFB	94.9	70-130		%Rec	1	4/28/2022 6:21:55 PM	67090
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/28/2022 10:17:22 PM	67099
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/28/2022 10:17:22 PM	67099
Surr: DNOP	87.7	51.1-141		%Rec	1	4/28/2022 10:17:22 PM	67099
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	4/28/2022 6:21:55 PM	67090
Toluene	ND	0.049		mg/Kg	1	4/28/2022 6:21:55 PM	67090
Ethylbenzene	ND	0.049		mg/Kg	1	4/28/2022 6:21:55 PM	67090
Xylenes, Total	ND	0.097		mg/Kg	1	4/28/2022 6:21:55 PM	67090
Surr: 1,2-Dichloroethane-d4	116	70-130		%Rec	1	4/28/2022 6:21:55 PM	67090
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	4/28/2022 6:21:55 PM	67090
Surr: Dibromofluoromethane	116	70-130		%Rec	1	4/28/2022 6:21:55 PM	67090
Surr: Toluene-d8	104	70-130		%Rec	1	4/28/2022 6:21:55 PM	67090

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		



## Analytical Report

Lab Order 2204A86

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-93 4'

Project: Avalanche Journal Battery

Collection Date: 4/22/2022 10:05:00 AM

Lab ID: 2204A86-004

Matrix: SOIL

Received Date: 4/26/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>NAI</b>
Chloride	6900	300		mg/Kg	100	5/3/2022 9:08:25 AM	67209
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/28/2022 6:48:57 PM	67090
Surr: BFB	107	70-130		%Rec	1	4/28/2022 6:48:57 PM	67090
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/28/2022 10:31:13 PM	67099
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/28/2022 10:31:13 PM	67099
Surr: DNOP	102	51.1-141		%Rec	1	4/28/2022 10:31:13 PM	67099
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	4/28/2022 6:48:57 PM	67090
Toluene	ND	0.050		mg/Kg	1	4/28/2022 6:48:57 PM	67090
Ethylbenzene	ND	0.050		mg/Kg	1	4/28/2022 6:48:57 PM	67090
Xylenes, Total	ND	0.10		mg/Kg	1	4/28/2022 6:48:57 PM	67090
Surr: 1,2-Dichloroethane-d4	113	70-130		%Rec	1	4/28/2022 6:48:57 PM	67090
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	4/28/2022 6:48:57 PM	67090
Surr: Dibromofluoromethane	115	70-130		%Rec	1	4/28/2022 6:48:57 PM	67090
Surr: Toluene-d8	108	70-130		%Rec	1	4/28/2022 6:48:57 PM	67090

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204A86

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-94 4'

Project: Avalanche Journal Battery

Collection Date: 4/22/2022 10:10:00 AM

Lab ID: 2204A86-005

Matrix: SOIL

Received Date: 4/26/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>NAI</b>
Chloride	5400	150		mg/Kg	50	5/3/2022 9:20:50 AM	67209
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/28/2022 7:15:59 PM	67090
Surr: BFB	106	70-130		%Rec	1	4/28/2022 7:15:59 PM	67090
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	4/28/2022 10:45:05 PM	67099
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/28/2022 10:45:05 PM	67099
Surr: DNOP	96.3	51.1-141		%Rec	1	4/28/2022 10:45:05 PM	67099
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	4/28/2022 7:15:59 PM	67090
Toluene	ND	0.050		mg/Kg	1	4/28/2022 7:15:59 PM	67090
Ethylbenzene	ND	0.050		mg/Kg	1	4/28/2022 7:15:59 PM	67090
Xylenes, Total	ND	0.10		mg/Kg	1	4/28/2022 7:15:59 PM	67090
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	4/28/2022 7:15:59 PM	67090
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	4/28/2022 7:15:59 PM	67090
Surr: Dibromofluoromethane	108	70-130		%Rec	1	4/28/2022 7:15:59 PM	67090
Surr: Toluene-d8	107	70-130		%Rec	1	4/28/2022 7:15:59 PM	67090

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2204A86

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-61 7-10'

Project: Avalanche Journal Battery

Collection Date: 4/22/2022 10:15:00 AM

Lab ID: 2204A86-006

Matrix: SOIL

Received Date: 4/26/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	1500	60		mg/Kg	20	5/2/2022 10:29:16 PM	67209
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/28/2022 7:43:08 PM	67090
Surr: BFB	92.3	70-130		%Rec	1	4/28/2022 7:43:08 PM	67090
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	11	8.4		mg/Kg	1	4/28/2022 10:58:49 PM	67099
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	4/28/2022 10:58:49 PM	67099
Surr: DNOP	90.9	51.1-141		%Rec	1	4/28/2022 10:58:49 PM	67099
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/28/2022 7:43:08 PM	67090
Toluene	ND	0.049		mg/Kg	1	4/28/2022 7:43:08 PM	67090
Ethylbenzene	ND	0.049		mg/Kg	1	4/28/2022 7:43:08 PM	67090
Xylenes, Total	ND	0.098		mg/Kg	1	4/28/2022 7:43:08 PM	67090
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	1	4/28/2022 7:43:08 PM	67090
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	4/28/2022 7:43:08 PM	67090
Surr: Dibromofluoromethane	113	70-130		%Rec	1	4/28/2022 7:43:08 PM	67090
Surr: Toluene-d8	101	70-130		%Rec	1	4/28/2022 7:43:08 PM	67090

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2204A86

Date Reported: 5/6/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-62 4-5'

Project: Avalanche Journal Battery

Collection Date: 4/22/2022 10:20:00 AM

Lab ID: 2204A86-007

Matrix: SOIL

Received Date: 4/26/2022 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	2100	60		mg/Kg	20	5/2/2022 11:06:19 PM	67209
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/28/2022 8:10:06 PM	67090
Surr: BFB	93.5	70-130		%Rec	1	4/28/2022 8:10:06 PM	67090
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	4/28/2022 11:26:28 PM	67099
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	4/28/2022 11:26:28 PM	67099
Surr: DNOP	89.7	51.1-141		%Rec	1	4/28/2022 11:26:28 PM	67099
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/28/2022 8:10:06 PM	67090
Toluene	ND	0.049		mg/Kg	1	4/28/2022 8:10:06 PM	67090
Ethylbenzene	ND	0.049		mg/Kg	1	4/28/2022 8:10:06 PM	67090
Xylenes, Total	ND	0.097		mg/Kg	1	4/28/2022 8:10:06 PM	67090
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	4/28/2022 8:10:06 PM	67090
Surr: 4-Bromofluorobenzene	92.3	70-130		%Rec	1	4/28/2022 8:10:06 PM	67090
Surr: Dibromofluoromethane	103	70-130		%Rec	1	4/28/2022 8:10:06 PM	67090
Surr: Toluene-d8	105	70-130		%Rec	1	4/28/2022 8:10:06 PM	67090

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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2204A86

06-May-22

Client: EOG

Project: Avalanche Journal Battery

Sample ID: <b>MB-67209</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>PBS</b>	Batch ID: <b>67209</b>	RunNo: <b>87670</b>
Prep Date: <b>5/2/2022</b>	Analysis Date: <b>5/2/2022</b>	SeqNo: <b>3104230</b> Units: <b>mg/Kg</b>
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: <b>LCS-67209</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>
Client ID: <b>LCSS</b>	Batch ID: <b>67209</b>	RunNo: <b>87670</b>
Prep Date: <b>5/2/2022</b>	Analysis Date: <b>5/2/2022</b>	SeqNo: <b>3104231</b> Units: <b>mg/Kg</b>
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 94.0 90 110

### 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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204A86

06-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>MB-67099</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67099</b>	RunNo: <b>87593</b>								
Prep Date: <b>4/27/2022</b>	Analysis Date: <b>4/28/2022</b>	SeqNo: <b>3101311</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	51.1	141			

Sample ID: <b>LCS-67099</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67099</b>	RunNo: <b>87593</b>								
Prep Date: <b>4/27/2022</b>	Analysis Date: <b>4/28/2022</b>	SeqNo: <b>3101312</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.2	68.9	135			
Surr: DNOP	5.2		5.000		105	51.1	141			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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

WO#: 2204A86

06-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

Sample ID: <b>lcs-67090</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8260B: Volatiles Short List</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>67090</b>		RunNo: <b>87615</b>							
Prep Date: <b>4/26/2022</b>	Analysis Date: <b>4/28/2022</b>		SeqNo: <b>3100678</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	70	130			
Toluene	1.0	0.050	1.000	0	104	70	130			
Surr: 1,2-Dichloroethane-d4	0.56		0.5000		112	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.4	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		105	70	130			
Surr: Toluene-d8	0.54		0.5000		107	70	130			

Sample ID: <b>mb-67090</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8260B: Volatiles Short List</b>							
Client ID: <b>PBS</b>	Batch ID: <b>67090</b>		RunNo: <b>87615</b>							
Prep Date: <b>4/26/2022</b>	Analysis Date: <b>4/28/2022</b>		SeqNo: <b>3100679</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.56		0.5000		112	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.1	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		110	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2204A86

06-May-22

**Client:** EOG**Project:** Avalanche Journal Battery

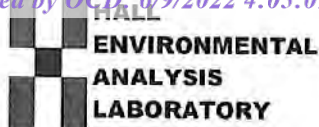
Sample ID: <b>ics-67090</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>67090</b>		RunNo: <b>87615</b>							
Prep Date: <b>4/26/2022</b>	Analysis Date: <b>4/28/2022</b>		SeqNo: <b>3100665</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	70	130			
Surr: BFB	540		500.0		108	70	130			

Sample ID: <b>mb-67090</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>67090</b>		RunNo: <b>87615</b>							
Prep Date: <b>4/26/2022</b>	Analysis Date: <b>4/28/2022</b>		SeqNo: <b>3100666</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	510		500.0		103	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 Quantitative 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  
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: 2204A86

RcptNo: 1

Received By: Juan Rojas 4/26/2022 8:30:00 AM

Completed By: Sean Livingston 4/26/2022 9:35:37 AM

Reviewed By: KPC 4/26/22

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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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: gnc/26/22

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.0	Good				



## Chain-of-Custody Record

Client: EOG-Chase Seale

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard☒ Rush 5 Day

Project Name:

Avalanche Journal Battery

Project #:

22E-00847

Project Manager:

Michael Moffatt

Sampler:

L. SullivanOn Ice: ☐ Yes ☐ No# of Coolers: 1Cooler Temp (including CF): 1.0-0-4.0 (°C)

Date Time Matrix Sample Name

4-22-21 09:40 Soil BES22-90 4'

4-22-21 09:45 Soil BES22-91 4'

4-22-21 09:50 Soil BES22-92 4'

10:05 1 BES22-93 4'

10:10 1 BES22-94 4'

10:15 1 WES22-61 7-10

10:20 1 WES22-62 4-5

Container Type and #

1 Jar

1 Jar

1 Jar

1

1

1

1

Preservative Type

HEAL No.

2204 A/C

001

002

003

004

005

006

007

## Analysis Request

BTX / 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<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Remarks:

Received by:

Via:

Date

Time

Relinquished by:

Relinquished by:

Date

Time

Date:

Time:

Date:

Time:



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

May 16, 2022

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: Avalanche Journal Battery

OrderNo.: 2205481

Dear Michael Moffitt:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/11/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2205481

Date Reported: 5/16/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-27 0'

Project: Avalanche Journal Battery

Collection Date: 5/9/2022 1:50:00 PM

Lab ID: 2205481-001

Matrix: SOIL

Received Date: 5/11/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/11/2022 4:22:52 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/11/2022 4:22:52 PM
Surr: DNOP	96.2	51.1-141		%Rec	1	5/11/2022 4:22:52 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	5/11/2022 11:20:05 PM
Surr: BFB	95.4	37.7-212		%Rec	1	5/11/2022 11:20:05 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.017		mg/Kg	1	5/11/2022 11:20:05 PM
Toluene	ND	0.033		mg/Kg	1	5/11/2022 11:20:05 PM
Ethylbenzene	ND	0.033		mg/Kg	1	5/11/2022 11:20:05 PM
Xylenes, Total	ND	0.066		mg/Kg	1	5/11/2022 11:20:05 PM
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	5/11/2022 11:20:05 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	5/11/2022 10:24:18 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		



## Analytical Report

Lab Order 2205481

Date Reported: 5/16/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-27 2'

Project: Avalanche Journal Battery

Collection Date: 5/9/2022 1:50:00 PM

Lab ID: 2205481-002

Matrix: SOIL

Received Date: 5/11/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/11/2022 4:47:04 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/11/2022 4:47:04 PM
Surr: DNOP	98.3	51.1-141		%Rec	1	5/11/2022 4:47:04 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	5/11/2022 11:43:33 PM
Surr: BFB	96.8	37.7-212		%Rec	1	5/11/2022 11:43:33 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.017		mg/Kg	1	5/11/2022 11:43:33 PM
Toluene	ND	0.033		mg/Kg	1	5/11/2022 11:43:33 PM
Ethylbenzene	ND	0.033		mg/Kg	1	5/11/2022 11:43:33 PM
Xylenes, Total	ND	0.066		mg/Kg	1	5/11/2022 11:43:33 PM
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	5/11/2022 11:43:33 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	5/11/2022 11:01:21 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2205481

16-May-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanche Journal Battery

Sample ID: <b>MB-67422</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67422</b>	RunNo: <b>87928</b>								
Prep Date: <b>5/11/2022</b>	Analysis Date: <b>5/12/2022</b>	SeqNo: <b>3116938</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-67422</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67422</b>	RunNo: <b>87928</b>								
Prep Date: <b>5/11/2022</b>	Analysis Date: <b>5/12/2022</b>	SeqNo: <b>3116939</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.4	90	110			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Page 3 of 6

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

WO#: 2205481

16-May-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanche Journal Battery

Sample ID: <b>MB-67396</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67396</b>	RunNo: <b>87938</b>								
Prep Date: <b>5/11/2022</b>	Analysis Date: <b>5/11/2022</b>	SeqNo: <b>3117275</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		89.4	51.1	141			

Sample ID: <b>LCS-67396</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67396</b>	RunNo: <b>87938</b>								
Prep Date: <b>5/11/2022</b>	Analysis Date: <b>5/11/2022</b>	SeqNo: <b>3117276</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.2	68.9	135			
Surr: DNOP	4.5		5.000		90.4	51.1	141			

Sample ID: <b>2205481-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BH22-27 0'</b>	Batch ID: <b>67396</b>	RunNo: <b>87938</b>								
Prep Date: <b>5/11/2022</b>	Analysis Date: <b>5/11/2022</b>	SeqNo: <b>3117280</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.9	49.60	0	97.0	36.1	154			
Surr: DNOP	4.7		4.960		95.4	51.1	141			

Sample ID: <b>2205481-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BH22-27 0'</b>	Batch ID: <b>67396</b>	RunNo: <b>87938</b>								
Prep Date: <b>5/11/2022</b>	Analysis Date: <b>5/11/2022</b>	SeqNo: <b>3117281</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.6	47.85	0	96.9	36.1	154	3.69	33.9	
Surr: DNOP	4.6		4.785		96.4	51.1	141	0	0	

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2205481

16-May-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanche Journal Battery

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>G87896</b>		RunNo: <b>87896</b>							
Prep Date:	Analysis Date: <b>5/11/2022</b>		SeqNo: <b>3116402</b>		Units: <b>mg/Kg</b>					
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		101	37.7	212			

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>G87896</b>		RunNo: <b>87896</b>							
Prep Date:	Analysis Date: <b>5/11/2022</b>		SeqNo: <b>3116403</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	72.3	137			
Surr: BFB	2200		1000		221	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 Quantitative 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#: 2205481

16-May-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanche Journal Battery

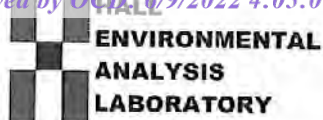
Sample ID: <b>mb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>B87896</b>	RunNo: <b>87896</b>								
Prep Date:	Analysis Date: <b>5/11/2022</b>	SeqNo: <b>3116443</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%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	0.98		1.000		98.3	70	130			

Sample ID: <b>100ng btex lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>B87896</b>	RunNo: <b>87896</b>								
Prep Date:	Analysis Date: <b>5/11/2022</b>	SeqNo: <b>3116444</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.2	80	120			
Toluene	0.95	0.050	1.000	0	95.0	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.2	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative 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



## Sample Log-In Check List

Client Name: Vertex Resources  
Services, Inc.

Work Order Number: 2205481

RcptNo: 1

Received By: Juan Rojas

5/11/2022 7:15:00 AM

*[Signature]*

Completed By: Tracy Casarrubias

5/11/2022 7:52:21 AM

Reviewed By: *[Signature]*

5/11/22

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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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: *ja 5/11/22*

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			



## Chain-of-Custody Record

Client: Ventex  
606 Chase Street  
 Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush 24-hr

Project Name:

Avondale Journal Battery

Project #:

22E-00347

Project Manager:

Michael MoffittSampler: L. FullmanOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including cri): 1.4-0=1.4 (°C)

Container Type and #

Preservative Type

HEAL No.

1 Jar0011 Jar002

## Analysis Request

BTX / 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<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Remarks:

Received by: CPM Date: 5/14/22 Time: 700Received by: CPM Date: 5/17/22 Time: 7:15



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

May 24, 2022

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Avalanche Journal State Battery

OrderNo.: 2205563

Dear Michael Moffitt:

Hall Environmental Analysis Laboratory received 9 sample(s) on 5/12/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2205563

Date Reported: 5/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-12 6'

Project: Avalanche Journal State Battery

Collection Date: 5/10/2022 10:30:00 AM

Lab ID: 2205563-001

Matrix: SOIL

Received Date: 5/12/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/13/2022 6:05:28 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/13/2022 6:05:28 PM
Surr: DNOP	101	51.1-141		%Rec	1	5/13/2022 6:05:28 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/13/2022 11:27:18 AM
Surr: BFB	97.6	37.7-212		%Rec	1	5/13/2022 11:27:18 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	5/13/2022 11:27:18 AM
Toluene	ND	0.048		mg/Kg	1	5/13/2022 11:27:18 AM
Ethylbenzene	ND	0.048		mg/Kg	1	5/13/2022 11:27:18 AM
Xylenes, Total	ND	0.096		mg/Kg	1	5/13/2022 11:27:18 AM
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	1	5/13/2022 11:27:18 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	200	60		mg/Kg	20	5/13/2022 2:38:16 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2205563

Date Reported: 5/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-17 6'

Project: Avalanche Journal State Battery

Collection Date: 5/10/2022 10:35:00 AM

Lab ID: 2205563-002

Matrix: SOIL

Received Date: 5/12/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/13/2022 6:16:36 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/13/2022 6:16:36 PM
Surr: DNOP	105	51.1-141		%Rec	1	5/13/2022 6:16:36 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/13/2022 12:37:36 PM
Surr: BFB	99.7	37.7-212		%Rec	1	5/13/2022 12:37:36 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	5/13/2022 12:37:36 PM
Toluene	ND	0.049		mg/Kg	1	5/13/2022 12:37:36 PM
Ethylbenzene	ND	0.049		mg/Kg	1	5/13/2022 12:37:36 PM
Xylenes, Total	ND	0.097		mg/Kg	1	5/13/2022 12:37:36 PM
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	5/13/2022 12:37:36 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	1900	61		mg/Kg	20	5/13/2022 2:50:40 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2205563

Date Reported: 5/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-31 6-10'

Project: Avalanche Journal State Battery

Collection Date: 5/10/2022 11:30:00 AM

Lab ID: 2205563-003

Matrix: SOIL

Received Date: 5/12/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	15	9.7		mg/Kg	1	5/13/2022 6:27:47 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/13/2022 6:27:47 PM
Surr: DNOP	105	51.1-141		%Rec	1	5/13/2022 6:27:47 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/13/2022 1:48:13 PM
Surr: BFB	98.1	37.7-212		%Rec	1	5/13/2022 1:48:13 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	5/13/2022 1:48:13 PM
Toluene	ND	0.048		mg/Kg	1	5/13/2022 1:48:13 PM
Ethylbenzene	ND	0.048		mg/Kg	1	5/13/2022 1:48:13 PM
Xylenes, Total	ND	0.096		mg/Kg	1	5/13/2022 1:48:13 PM
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	5/13/2022 1:48:13 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>NAI</b>
Chloride	3200	150		mg/Kg	50	5/16/2022 6:44:39 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2205563

Date Reported: 5/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-63 5-6'

Project: Avalanche Journal State Battery

Collection Date: 5/10/2022 11:35:00 AM

Lab ID: 2205563-004

Matrix: SOIL

Received Date: 5/12/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/13/2022 6:49:56 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/13/2022 6:49:56 PM
Surr: DNOP	112	51.1-141		%Rec	1	5/13/2022 6:49:56 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/13/2022 2:11:36 PM
Surr: BFB	99.6	37.7-212		%Rec	1	5/13/2022 2:11:36 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	5/13/2022 2:11:36 PM
Toluene	ND	0.048		mg/Kg	1	5/13/2022 2:11:36 PM
Ethylbenzene	ND	0.048		mg/Kg	1	5/13/2022 2:11:36 PM
Xylenes, Total	ND	0.096		mg/Kg	1	5/13/2022 2:11:36 PM
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	5/13/2022 2:11:36 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	850	60		mg/Kg	20	5/13/2022 4:05:08 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		



## Analytical Report

Lab Order 2205563

Date Reported: 5/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-64 5-6'

Project: Avalanche Journal State Battery

Collection Date: 5/10/2022 11:40:00 AM

Lab ID: 2205563-005

Matrix: SOIL

Received Date: 5/12/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/13/2022 7:00:57 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/13/2022 7:00:57 PM
Surr: DNOP	89.4	51.1-141		%Rec	1	5/13/2022 7:00:57 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/13/2022 3:22:05 PM
Surr: BFB	97.8	37.7-212		%Rec	1	5/13/2022 3:22:05 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	5/13/2022 3:22:05 PM
Toluene	ND	0.047		mg/Kg	1	5/13/2022 3:22:05 PM
Ethylbenzene	ND	0.047		mg/Kg	1	5/13/2022 3:22:05 PM
Xylenes, Total	ND	0.094		mg/Kg	1	5/13/2022 3:22:05 PM
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	5/13/2022 3:22:05 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	970	60		mg/Kg	20	5/13/2022 4:17:32 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2205563

Date Reported: 5/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-42 12'

Project: Avalanche Journal State Battery

Collection Date: 5/10/2022 1:40:00 PM

Lab ID: 2205563-006

Matrix: SOIL

Received Date: 5/12/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/13/2022 7:12:01 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/13/2022 7:12:01 PM
Surr: DNOP	83.3	51.1-141		%Rec	1	5/13/2022 7:12:01 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/13/2022 3:45:33 PM
Surr: BFB	97.7	37.7-212		%Rec	1	5/13/2022 3:45:33 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	5/13/2022 3:45:33 PM
Toluene	ND	0.047		mg/Kg	1	5/13/2022 3:45:33 PM
Ethylbenzene	ND	0.047		mg/Kg	1	5/13/2022 3:45:33 PM
Xylenes, Total	ND	0.094		mg/Kg	1	5/13/2022 3:45:33 PM
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	5/13/2022 3:45:33 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	1400	60		mg/Kg	20	5/13/2022 4:29:57 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2205563

Date Reported: 5/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-48 12'

Project: Avalanche Journal State Battery

Collection Date: 5/10/2022 1:45:00 PM

Lab ID: 2205563-007

Matrix: SOIL

Received Date: 5/12/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/13/2022 7:22:57 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/13/2022 7:22:57 PM
Surr: DNOP	115	51.1-141		%Rec	1	5/13/2022 7:22:57 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/13/2022 4:08:58 PM
Surr: BFB	98.5	37.7-212		%Rec	1	5/13/2022 4:08:58 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	5/13/2022 4:08:58 PM
Toluene	ND	0.047		mg/Kg	1	5/13/2022 4:08:58 PM
Ethylbenzene	ND	0.047		mg/Kg	1	5/13/2022 4:08:58 PM
Xylenes, Total	ND	0.095		mg/Kg	1	5/13/2022 4:08:58 PM
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	5/13/2022 4:08:58 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>NAI</b>
Chloride	1900	60		mg/Kg	20	5/16/2022 4:52:55 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2205563

Date Reported: 5/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-38 5-12'

Project: Avalanche Journal State Battery

Collection Date: 5/10/2022 1:50:00 PM

Lab ID: 2205563-008

Matrix: SOIL

Received Date: 5/12/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/13/2022 7:34:02 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/13/2022 7:34:02 PM
Surr: DNOP	96.0	51.1-141		%Rec	1	5/13/2022 7:34:02 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/13/2022 4:32:32 PM
Surr: BFB	98.0	37.7-212		%Rec	1	5/13/2022 4:32:32 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	5/13/2022 4:32:32 PM
Toluene	ND	0.048		mg/Kg	1	5/13/2022 4:32:32 PM
Ethylbenzene	ND	0.048		mg/Kg	1	5/13/2022 4:32:32 PM
Xylenes, Total	ND	0.095		mg/Kg	1	5/13/2022 4:32:32 PM
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	5/13/2022 4:32:32 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>NAI</b>
Chloride	1500	60		mg/Kg	20	5/16/2022 5:05:20 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2205563

Date Reported: 5/24/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-42 8-12'

Project: Avalanche Journal State Battery

Collection Date: 5/10/2022 1:55:00 PM

Lab ID: 2205563-009

Matrix: SOIL

Received Date: 5/12/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/13/2022 7:44:56 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/13/2022 7:44:56 PM
Surr: DNOP	85.5	51.1-141		%Rec	1	5/13/2022 7:44:56 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/13/2022 4:56:02 PM
Surr: BFB	97.2	37.7-212		%Rec	1	5/13/2022 4:56:02 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/13/2022 4:56:02 PM
Toluene	ND	0.050		mg/Kg	1	5/13/2022 4:56:02 PM
Ethylbenzene	ND	0.050		mg/Kg	1	5/13/2022 4:56:02 PM
Xylenes, Total	ND	0.10		mg/Kg	1	5/13/2022 4:56:02 PM
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	5/13/2022 4:56:02 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	2200	150		mg/Kg	50	5/17/2022 11:10:20 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2205563

24-May-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanche Journal State Battery

Sample ID: <b>MB-67451</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67451</b>	RunNo: <b>87973</b>								
Prep Date: <b>5/13/2022</b>	Analysis Date: <b>5/13/2022</b>	SeqNo: <b>3120035</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-67451</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67451</b>	RunNo: <b>87973</b>								
Prep Date: <b>5/13/2022</b>	Analysis Date: <b>5/13/2022</b>	SeqNo: <b>3120036</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.5	90	110			

Sample ID: <b>MB-67476</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67476</b>	RunNo: <b>88022</b>								
Prep Date: <b>5/16/2022</b>	Analysis Date: <b>5/16/2022</b>	SeqNo: <b>3121392</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-67476</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67476</b>	RunNo: <b>88022</b>								
Prep Date: <b>5/16/2022</b>	Analysis Date: <b>5/16/2022</b>	SeqNo: <b>3121394</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.2	90	110			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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

WO#: 2205563

24-May-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanche Journal State Battery

Sample ID: <b>LCS-67445</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>67445</b>		RunNo: <b>87975</b>							
Prep Date: <b>5/12/2022</b>	Analysis Date: <b>5/13/2022</b>		SeqNo: <b>3119357</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.1	68.9	135			
Surr: DNOP	4.8		5.000		96.4	51.1	141			

Sample ID: <b>MB-67445</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>67445</b>		RunNo: <b>87975</b>							
Prep Date: <b>5/12/2022</b>	Analysis Date: <b>5/13/2022</b>		SeqNo: <b>3119359</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		105	51.1	141			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2205563

24-May-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanche Journal State Battery

Sample ID: <b>mb-67437</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67437</b>	RunNo: <b>87967</b>								
Prep Date: <b>5/12/2022</b>	Analysis Date: <b>5/13/2022</b>	SeqNo: <b>3119095</b> Units: <b>mg/Kg</b>								
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		96.3	37.7	212			

Sample ID: <b>lcs-67437</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67437</b>	RunNo: <b>87967</b>								
Prep Date: <b>5/12/2022</b>	Analysis Date: <b>5/13/2022</b>	SeqNo: <b>3119096</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.3	137			
Surr: BFB	2100		1000		210	37.7	212			

Sample ID: <b>2205563-001ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BES22-12 6'</b>	Batch ID: <b>67437</b>	RunNo: <b>87967</b>								
Prep Date: <b>5/12/2022</b>	Analysis Date: <b>5/13/2022</b>	SeqNo: <b>3119098</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.8	23.92	0	122	70	130			
Surr: BFB	2200		956.9		229	37.7	212			S

Sample ID: <b>2205563-001amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BES22-12 6'</b>	Batch ID: <b>67437</b>	RunNo: <b>87967</b>								
Prep Date: <b>5/12/2022</b>	Analysis Date: <b>5/13/2022</b>	SeqNo: <b>3119099</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.8	23.90	0	122	70	130	0.259	20	
Surr: BFB	2100		956.0		222	37.7	212	0	0	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 Quantitative 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#: 2205563

24-May-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanche Journal State Battery

Sample ID: <b>mb-67437</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67437</b>	RunNo: <b>87967</b>								
Prep Date: <b>5/12/2022</b>	Analysis Date: <b>5/13/2022</b>	SeqNo: <b>3119121</b> Units: <b>mg/Kg</b>								
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		96.5	70	130			

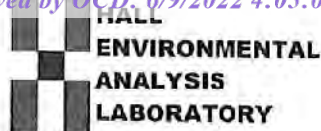
Sample ID: <b>LCS-67437</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67437</b>	RunNo: <b>87967</b>								
Prep Date: <b>5/12/2022</b>	Analysis Date: <b>5/13/2022</b>	SeqNo: <b>3119122</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.025	1.000	0	80.1	80	120			
Toluene	0.86	0.050	1.000	0	85.8	80	120			
Ethylbenzene	0.87	0.050	1.000	0	87.0	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.8	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.4	70	130			

Sample ID: <b>2205563-002ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BES22-17 6'</b>	Batch ID: <b>67437</b>	RunNo: <b>87967</b>								
Prep Date: <b>5/12/2022</b>	Analysis Date: <b>5/13/2022</b>	SeqNo: <b>3119125</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9709	0	94.7	68.8	120			
Toluene	1.0	0.049	0.9709	0	103	73.6	124			
Ethylbenzene	1.0	0.049	0.9709	0	106	72.7	129			
Xylenes, Total	3.1	0.097	2.913	0	105	75.7	126			
Surr: 4-Bromofluorobenzene	0.94		0.9709		97.1	70	130			

Sample ID: <b>2205563-002amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BES22-17 6'</b>	Batch ID: <b>67437</b>	RunNo: <b>87967</b>								
Prep Date: <b>5/12/2022</b>	Analysis Date: <b>5/13/2022</b>	SeqNo: <b>3119126</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9699	0	98.4	68.8	120	3.71	20	
Toluene	1.0	0.048	0.9699	0	106	73.6	124	3.19	20	
Ethylbenzene	1.1	0.048	0.9699	0	110	72.7	129	3.59	20	
Xylenes, Total	3.2	0.097	2.910	0	110	75.7	126	3.97	20	
Surr: 4-Bromofluorobenzene	0.96		0.9699		99.3	70	130	0	0	

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		



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: 2205563

RcptNo: 1

Received By: Sean Livingston

5/12/2022 7:50:00 AM

*Sean Livingston*

Completed By: Sean Livingston

5/12/2022 8:14:59 AM

*Sean Livingston*

Reviewed By: *JL 5-12-22*

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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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: *JL 5/12/22*

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.9	Good				



## Chain-of-Custody Record

Client: Vertex

(EOG Chase Settlement)

Mailing Address:

Turn-Around Time:

☐ Standard ☒ Rush

Project Name:

Avulanehe Journal State Barbers

Project #:

226-00347

Project Manager:

Michael HoffmanSampler: L. PullmanOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including off): 4.4 to 4.9 (°C)

Container Type and #

Preservative Type

HEAL No.

2205563001002003004005006007008009010011012013014015016017018019020021022023024025

## 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

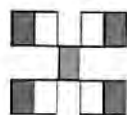
RCRA 8 Metals

Cl, F, Br, NO<sub>2</sub>, NO<sub>3</sub>, PO<sub>4</sub>, SO<sub>4</sub>

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Remarks:

Received by: Michael Hoffman Date: 5/11/22 Time: 7:00Received by: Sam Connor Date: 5/12/22 Time: 7:50

Relinquished by:

L. PullmanDate: 5/11/22 Time: 07:00

Relinquished by:

Michael HoffmanDate: 5/11/22 Time: 19:00



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)

May 25, 2022

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Avalanche Journal Battery

OrderNo.: 2205620

Dear Michael Moffitt:

Hall Environmental Analysis Laboratory received 8 sample(s) on 5/13/2022 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](http://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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109



## Analytical Report

Lab Order 2205620

Date Reported: 5/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-36 4-12'

Project: Avalanche Journal Battery

Collection Date: 5/11/2022 11:05:00 AM

Lab ID: 2205620-001

Matrix: SOIL

Received Date: 5/13/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/17/2022 3:02:01 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/17/2022 3:02:01 PM
Surr: DNOP	83.9	51.1-141		%Rec	1	5/17/2022 3:02:01 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/16/2022 10:55:00 AM
Surr: BFB	88.6	37.7-212		%Rec	1	5/16/2022 10:55:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	5/16/2022 10:55:00 AM
Toluene	ND	0.050		mg/Kg	1	5/16/2022 10:55:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	5/16/2022 10:55:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	5/16/2022 10:55:00 AM
Surr: 4-Bromofluorobenzene	87.2	70-130		%Rec	1	5/16/2022 10:55:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
Chloride	2600	150		mg/Kg	50	5/18/2022 11:04:08 AM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 1 of 12

## Analytical Report

Lab Order 2205620

Date Reported: 5/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-37 5-12'

Project: Avalanche Journal Battery

Collection Date: 5/11/2022 11:10:00 AM

Lab ID: 2205620-002

Matrix: SOIL

Received Date: 5/13/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: ED
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/17/2022 4:11:25 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/17/2022 4:11:25 PM
Surr: DNOP	73.6	51.1-141		%Rec	1	5/17/2022 4:11:25 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/16/2022 11:54:00 AM
Surr: BFB	88.9	37.7-212		%Rec	1	5/16/2022 11:54:00 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	5/16/2022 11:54:00 AM
Toluene	ND	0.047		mg/Kg	1	5/16/2022 11:54:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	5/16/2022 11:54:00 AM
Xylenes, Total	ND	0.094		mg/Kg	1	5/16/2022 11:54:00 AM
Surr: 4-Bromofluorobenzene	89.0	70-130		%Rec	1	5/16/2022 11:54:00 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: LRN
Chloride	1700	60		mg/Kg	20	5/17/2022 11:10:24 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

## Analytical Report

Lab Order 2205620

Date Reported: 5/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-61 7-15'

Project: Avalanche Journal Battery

Collection Date: 5/11/2022 10:40:00 AM

Lab ID: 2205620-003

Matrix: SOIL

Received Date: 5/13/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/17/2022 4:25:24 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/17/2022 4:25:24 PM
Surr: DNOP	77.9	51.1-141		%Rec	1	5/17/2022 4:25:24 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/16/2022 12:14:00 PM
Surr: BFB	87.4	37.7-212		%Rec	1	5/16/2022 12:14:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	5/16/2022 12:14:00 PM
Toluene	ND	0.048		mg/Kg	1	5/16/2022 12:14:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	5/16/2022 12:14:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	5/16/2022 12:14:00 PM
Surr: 4-Bromofluorobenzene	89.2	70-130		%Rec	1	5/16/2022 12:14:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	1600	60		mg/Kg	20	5/17/2022 11:47:39 AM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2205620

Date Reported: 5/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-65 12-15'

Project: Avalanche Journal Battery

Collection Date: 5/11/2022 10:45:00 AM

Lab ID: 2205620-004

Matrix: SOIL

Received Date: 5/13/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: ED
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/17/2022 4:39:03 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/17/2022 4:39:03 PM
Surr: DNOP	88.4	51.1-141		%Rec	1	5/17/2022 4:39:03 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/16/2022 12:33:00 PM
Surr: BFB	87.4	37.7-212		%Rec	1	5/16/2022 12:33:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	5/16/2022 12:33:00 PM
Toluene	ND	0.050		mg/Kg	1	5/16/2022 12:33:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	5/16/2022 12:33:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	5/16/2022 12:33:00 PM
Surr: 4-Bromofluorobenzene	88.6	70-130		%Rec	1	5/16/2022 12:33:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: LRN
Chloride	2200	60		mg/Kg	20	5/17/2022 12:00:04 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2205620

Date Reported: 5/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-66 4-15'

Project: Avalanche Journal Battery

Collection Date: 5/11/2022 10:50:00 AM

Lab ID: 2205620-005

Matrix: SOIL

Received Date: 5/13/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	98	9.6		mg/Kg	1	5/17/2022 4:53:00 PM
Motor Oil Range Organics (MRO)	61	48		mg/Kg	1	5/17/2022 4:53:00 PM
Surr: DNOP	70.7	51.1-141		%Rec	1	5/17/2022 4:53:00 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/16/2022 12:53:00 PM
Surr: BFB	90.2	37.7-212		%Rec	1	5/16/2022 12:53:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	5/16/2022 12:53:00 PM
Toluene	ND	0.049		mg/Kg	1	5/16/2022 12:53:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	5/16/2022 12:53:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	5/16/2022 12:53:00 PM
Surr: 4-Bromofluorobenzene	90.0	70-130		%Rec	1	5/16/2022 12:53:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	660	60		mg/Kg	20	5/17/2022 12:12:28 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2205620

Date Reported: 5/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-67 5-15'

Project: Avalanche Journal Battery

Collection Date: 5/11/2022 10:55:00 AM

Lab ID: 2205620-006

Matrix: SOIL

Received Date: 5/13/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/17/2022 5:06:43 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/17/2022 5:06:43 PM
Surr: DNOP	68.3	51.1-141		%Rec	1	5/17/2022 5:06:43 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/16/2022 1:13:00 PM
Surr: BFB	90.2	37.7-212		%Rec	1	5/16/2022 1:13:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.023		mg/Kg	1	5/16/2022 1:13:00 PM
Toluene	ND	0.046		mg/Kg	1	5/16/2022 1:13:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	5/16/2022 1:13:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	5/16/2022 1:13:00 PM
Surr: 4-Bromofluorobenzene	88.0	70-130		%Rec	1	5/16/2022 1:13:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	2200	61		mg/Kg	20	5/17/2022 12:49:43 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2205620

Date Reported: 5/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-41 15'

Project: Avalanche Journal Battery

Collection Date: 5/11/2022 10:30:00 AM

Lab ID: 2205620-007

Matrix: SOIL

Received Date: 5/13/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/17/2022 5:20:31 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/17/2022 5:20:31 PM
Surr: DNOP	80.0	51.1-141		%Rec	1	5/17/2022 5:20:31 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/16/2022 1:33:00 PM
Surr: BFB	92.9	37.7-212		%Rec	1	5/16/2022 1:33:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	5/16/2022 1:33:00 PM
Toluene	ND	0.048		mg/Kg	1	5/16/2022 1:33:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	5/16/2022 1:33:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	5/16/2022 1:33:00 PM
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	5/16/2022 1:33:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	2400	60		mg/Kg	20	5/17/2022 1:02:08 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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## Analytical Report

Lab Order 2205620

Date Reported: 5/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-95 15'

Project: Avalanche Journal Battery

Collection Date: 5/11/2022 10:35:00 AM

Lab ID: 2205620-008

Matrix: SOIL

Received Date: 5/13/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/17/2022 6:02:56 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/17/2022 6:02:56 PM
Surr: DNOP	81.1	51.1-141		%Rec	1	5/17/2022 6:02:56 PM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/16/2022 1:52:00 PM
Surr: BFB	87.9	37.7-212		%Rec	1	5/16/2022 1:52:00 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	5/16/2022 1:52:00 PM
Toluene	ND	0.048		mg/Kg	1	5/16/2022 1:52:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	5/16/2022 1:52:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	5/16/2022 1:52:00 PM
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	1	5/16/2022 1:52:00 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	2100	60		mg/Kg	20	5/17/2022 1:39:22 PM

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

<b>Qualifiers:</b>	*	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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

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# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2205620

25-May-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanche Journal Battery

Sample ID: <b>MB-67497</b>	SampType: <b>mbk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67497</b>	RunNo: <b>88048</b>								
Prep Date: <b>5/16/2022</b>	Analysis Date: <b>5/17/2022</b>	SeqNo: <b>3122249</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-67497</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67497</b>	RunNo: <b>88048</b>								
Prep Date: <b>5/16/2022</b>	Analysis Date: <b>5/17/2022</b>	SeqNo: <b>3122250</b>	Units: <b>mg/Kg</b>							
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.	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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2205620

25-May-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanche Journal Battery

Sample ID: <b>MB-67474</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67474</b>	RunNo: <b>88059</b>								
Prep Date: <b>5/16/2022</b>	Analysis Date: <b>5/17/2022</b>	SeqNo: <b>3122922</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		87.8	51.1	141			

Sample ID: <b>LCS-67474</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67474</b>	RunNo: <b>88059</b>								
Prep Date: <b>5/16/2022</b>	Analysis Date: <b>5/17/2022</b>	SeqNo: <b>3122923</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.0	64.4	127			
Surr: DNOP	5.2		5.000		103	51.1	141			

Sample ID: <b>2205620-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>WES22-36 4-12'</b>	Batch ID: <b>67474</b>	RunNo: <b>88059</b>								
Prep Date: <b>5/16/2022</b>	Analysis Date: <b>5/17/2022</b>	SeqNo: <b>3122927</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.8	48.97	0	90.4	36.1	154			
Surr: DNOP	4.2		4.897		85.7	51.1	141			

Sample ID: <b>2205620-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>WES22-36 4-12'</b>	Batch ID: <b>67474</b>	RunNo: <b>88059</b>								
Prep Date: <b>5/16/2022</b>	Analysis Date: <b>5/17/2022</b>	SeqNo: <b>3122928</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	9.5	47.48	0	84.7	36.1	154	9.56	33.9	
Surr: DNOP	3.4		4.748		71.4	51.1	141	0	0	

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2205620

25-May-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanche Journal Battery

Sample ID: <b>lcs-67454</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>67454</b>		RunNo: <b>88033</b>							
Prep Date: <b>5/13/2022</b>	Analysis Date: <b>5/16/2022</b>		SeqNo: <b>3120618</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	72.3	137			
Surr: BFB	1800		1000		184	37.7	212			

Sample ID: <b>mb-67454</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>67454</b>		RunNo: <b>88033</b>							
Prep Date: <b>5/13/2022</b>	Analysis Date: <b>5/16/2022</b>		SeqNo: <b>3120619</b>		Units: <b>mg/Kg</b>					
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		91.2	37.7	212			

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

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

WO#: 2205620

25-May-22

**Client:** Vertex Resources Services, Inc.**Project:** Avalanche Journal Battery

Sample ID: <b>ics-67454</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>67454</b>	RunNo: <b>88033</b>								
Prep Date: <b>5/13/2022</b>	Analysis Date: <b>5/16/2022</b>	SeqNo: <b>3120671</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.1	80	120			
Toluene	0.87	0.050	1.000	0	87.4	80	120			
Ethylbenzene	0.87	0.050	1.000	0	87.4	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.6	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.2	70	130			

Sample ID: <b>mb-67454</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>67454</b>	RunNo: <b>88033</b>								
Prep Date: <b>5/13/2022</b>	Analysis Date: <b>5/16/2022</b>	SeqNo: <b>3120672</b> Units: <b>mg/Kg</b>								
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	0.92		1.000		91.6	70	130			

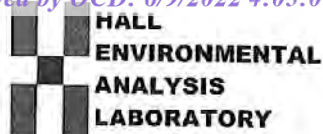
Sample ID: <b>2205620-001ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>WES22-36 4-12'</b>	Batch ID: <b>67454</b>	RunNo: <b>88033</b>								
Prep Date: <b>5/13/2022</b>	Analysis Date: <b>5/16/2022</b>	SeqNo: <b>3120674</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9690	0	90.1	68.8	120			
Toluene	0.90	0.048	0.9690	0	92.6	73.6	124			
Ethylbenzene	0.90	0.048	0.9690	0	92.7	72.7	129			
Xylenes, Total	2.7	0.097	2.907	0	91.7	75.7	126			
Surr: 4-Bromofluorobenzene	0.85		0.9690		87.3	70	130			

Sample ID: <b>2205620-001amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>WES22-36 4-12'</b>	Batch ID: <b>67454</b>	RunNo: <b>88033</b>								
Prep Date: <b>5/13/2022</b>	Analysis Date: <b>5/16/2022</b>	SeqNo: <b>3120675</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.024	0.9615	0	84.8	68.8	120	6.80	20	
Toluene	0.84	0.048	0.9615	0	87.0	73.6	124	7.03	20	
Ethylbenzene	0.84	0.048	0.9615	0	87.3	72.7	129	6.68	20	
Xylenes, Total	2.5	0.096	2.885	0	86.2	75.7	126	6.93	20	
Surr: 4-Bromofluorobenzene	0.85		0.9615		88.1	70	130	0	0	

**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 Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		





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: 2205620

RcptNo: 1

Received By: Juan Rojas

5/13/2022 7:15:00 AM

*Juan Rojas*

Completed By: Tracy Casarrubias

5/13/2022 7:40:29 AM

Reviewed By:

*KPK*

*5.13.22*

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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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:

*just 5/13/22*

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.5	Good	Not Present			



**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 112619

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 112619
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	6/21/2022