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	nAPP2115335335
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 # *(assigned by OCD)* nAPP2115335335
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

Location of Release Source

Latitude 32.72104 Longitude -104.43326
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Hornbaker BA Battery	Site Type Battery
Date Release Discovered 05/25/2021	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
G	25	18S	25E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☑ Private (*Name:* Hornbaker Estate)

Nature and Volume of Release

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

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

Cause of Release Historical impacts discovered during the P&A of the battery. Release volume and date are unknown.

State of New Mexico
Oil Conservation Division

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

Initial Response

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

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

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

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

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

Printed Name: Chase Settle
Title: Rep Safety & Environmental Sr
Signature: Chase Settle
Date: 6/2/2021
email: Chase_Settle@eogresources.com
Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2115335335
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Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>107 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☒ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☒ Yes ☐ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2115335335
District RP	
Facility ID	
Application ID	

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

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

Signature: Chase Settle Date: 03/15/2022

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

OCD Only

Received by: _____ Date: _____

Incident ID	nAPP2115335335
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

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

Signature: Chase Settle Date: 03/15/2022

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

OCD Only

Received by: _____ Date: _____

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

Signature: Bradford Billings Date: 04/28/2022

2135 S. Loop 250 W,
Midland, Texas 79703
United States
www.ghd.com

Our ref: 11228980

April 22, 2022

New Mexico Oil Conservation Division
District 2
811 South First Street
Artesia, New Mexico 88210

Re: Site Characterization and Remediation Work Plan
Hornbaker BA Battery Release Site
EOG Resources Inc.
Incident ID: nAPP2115335335
G-25-18S-25E, Eddy County, New Mexico

1. Introduction

GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG), submits this Site Characterization and Remediation Work Plan to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of delineation, sampling, and analyses in the affected area at the EOG Hornbaker BA Battery Site (Site). Remedial activities are also proposed for NMOCD considerations. The Site is located in Unit Letter G Section 25 of Township 18 South and Range 25 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.72104 N latitude and 104.43326 W longitude. The release occurred on private land owned by Hornbaker Estate. Figure 1 depicts the Site location. The EOG production facility and other site details are depicted on Figure 2, Site Assessment: Soil Analytical Results Map.

2. Background Information

A C-141 Release Notification for this release was submitted to the NMOCD on June 2, 2021. The C-141 stated that no known volume or date could be assigned to this historical release. The potential release area was discovered during EOG well plugging and site abandonment activities associated with this location. Soils within the former tank battery containment appeared to be discolored and after discussions between field personnel and environmental staff, EOG made the decision to go ahead and file a C-141 for this suspect release location.

The release falls under the jurisdiction of the NMOCD District 2 Office in Artesia, New Mexico. The NMOCD assigned the release with Incident Number NAPP2115335335. The Release Notification, Site Assessment/Characterization, and Remediation Plan portions of Form C-141 are attached to the front of this report.

3. Groundwater and Site Characterization

GHD characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, (Table I) from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12). GHD, on behalf of EOG, proposes to divide the Site into two (2) separate areas ("Area A" and "Area B") due to a significant watercourse being located within three hundred (300) feet of the northern portion of the Site.

Area A:

According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i), Area A, approximately 2,548 square yards of the impacted surface area on the northern extent of the Site, is located within 300 feet of a significant watercourse and must be treated as if groundwater is less than fifty (50) feet below ground surface (bgs). Additionally, Area A is located within three hundred (300) feet of a wetland. No other receptors (Groundwater, water wells, playas, or ordinance boundaries) were located within each specific boundary or distance from the site. Figure 2- Site Assessment: Soil Analytical Results Map, depicts the boundary of Area A and Area B from the significant watercourse. The Site characterization documentation (Karst Potential, FEMA, Points of Diversion, Wetlands maps and significant watercourse) are provided in Attachment B. The soil and closure criteria are listed below and will be referred to as **Standard A** in this report.

General Site Characterization and Groundwater: Table 1

Site Characterization	Average Groundwater Depth (ft.)
300 Feet from a Significant Watercourse/Wetlands	Unknown, Treated as <50 ft.

Table 3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12)

Constituent	Limits
Chloride	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
TPH (GRO+DRO)	Not Applicable
Benzene	10 mg/kg
BTEX	50 mg/kg

Area B:

On December 14, 2021, White Drilling Company (White) installed a soil boring at GPS coordinates, 32.717480 N latitude and 104.430046 W longitude to approximately 107.50 feet below ground surface (bgs) which is located within half a mile of the Site. The well was left open for seventy-two (72) hours and a water level meter was utilized to determine the presence or absence of groundwater. No groundwater was detected, and the boring was plugged and abandoned. According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i), Area B, approximately 1,229 square yards of the impacted surface area on the southern extent of the Site, is located within an area that meets closure criteria for depth to groundwater greater than one hundred (100) feet. No other receptors (Karst areas, significant watercourses, water wells, playas, wetlands or ordinance boundaries) were located within each specific boundary or distance from the site. The Site characterization documentation (Boring Logs, Karst Potential, FEMA, Points of Diversion, Wetlands maps and significant watercourse) are provided in Attachment A. The soil and closure criteria are listed below and will be referred to as **Standard B** in this report.

General Site Characterization and Groundwater: Table 1

Site Characterization	Average Groundwater Depth (ft.)
No Receptors Found	>100’

Table 3.2 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12 and 13)

Constituent	Limits
Chloride	20,000 mg/kg
TPH (GRO+DRO+MRO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
Benzene	10 mg/kg
BTEX	50 mg/kg

4. Initial Soil Delineation Assessment Summary and Findings

On June 10 through July 15, 2021, GHD Services Inc. (GHD) and EOG’s contractor Culberson Construction Energy Services (CCI) installed thirty (30) test pits, TP1 through TP30, within the suspected impacted area’s: Area A and Area B. Soil samples were collected at depths ranging from surface to twenty (20) feet bgs. All soil samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300 by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico.

Analytical results indicated eleven (11) of eighteen (18) test pits in Area A had samples exceeding applicable Table I (**Standard A**) closure criteria for a significant watercourse less than three hundred (300) feet:TP1, TP2, TP3, TP5, TP6, TP7, TP9, TP11, TP13, TP15, and TP17. Area B had twelve (12) test pits (TP-19 through TP-30) installed with none of the samples exceeding applicable Table I (**Standard B**) Closure Criteria for depth to groundwater greater than one hundred (100) feet. Analytical results are provided in Table 1, Table 2, on Figure 2, and in the Laboratory Analytical Reports provided in Attachment C.

GHD and White returned to the Site on December 8, 2021 through January 7, 2022, to install four (4) soil borings strategically positioned around the areas of test pits not vertically delineated to delineate Total TPH and chloride impacts: SB-1 through SB-3 (Area A) and SB-4 (Area B). During boring installation samples were obtained every five (5) to ten (10) feet starting at five (5) feet bgs until field screening and observations indicated the boring was delineated. All soil samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300 by HEAL in Albuquerque, New Mexico.

In Area A, analytical results indicated three (3) soil borings (SB-1, SB-2 and SB-3) exhibited chloride concentrations above Table I **(Standard A)** closure criteria at depths ranging from five (5) to ninety (90) feet bgs. Soil boring SB-3 also exhibited TPH concentrations above Table I **(Standard A)** closure criteria at five (5) and ninety (90) feet bgs. Soil Boring SB-3 exhibited no TPH concentrations after the first ten (10) feet bgs and again at eight-five (85) and ninety (90) bgs. Due to low TPH concentrations and irregular results it was determined to be cross-contamination from the drill rig lubrication or debris falling into the bore hole from the interval of surface to ten (10) bgs. Area B, Soil Boring SB-4 analytical results indicated TPH, Benzene, Chloride and BTEX concentrations were below Table I **(Standard B)** closure criteria. Figure 2, Site Assessment: Soil Analytical Results Map, depicts the locations of the test pit and soil boring locations and analytical concentrations. Soil Boring Logs are provided in Attachment B. Analytical results are provided in Table 1, Table 2, on Figure 2, and in the Laboratory Analytical Reports provided in Attachment C.

5. nAPP2125655405 Proposed Work Plan

Area A:

As per NMAC 19.15.29.14, GHD, on behalf of EOG, is requesting a variance for rule NMAC 19.15.29.12 for chloride impacts beyond six (6) feet below grade surface depth. Areas impacted by Benzene, BTEX and Total TPH beyond six (6) feet grade surface depth will be excavated until concentrations are below Table I **(Standard A)** closure criteria. Proposed excavation depths are listed as follows:

- TP-3 and SB-3 will be excavated to eight (8) feet bgs or until TPH concentrations are below Table I closure criteria. Confirmation bottomhole and sidewall samples will be collected by way of five (5) point composite samples from areas representing no greater than 200 square feet to ensure all TPH impacted soil above Table I closure criteria has been removed. Discrete soil samples will be collected from the sidewalls and bottom of the excavation if any staining is observed. Once analytical results exhibit concentrations below Table I closure criteria the excavation will be backfilled with non-impact soil to six (6) feet below grade surface.
- TP-1 and TP-15 will be excavated to twenty (20) to twenty-four (24) feet bgs. If TPH concentrations are still above Table I closure criteria the area will be further excavated if conditions are safe to do so. Confirmation bottomhole and sidewall samples will be collected by way of five (5) point composite samples from areas representing no greater than 200 square feet to ensure all TPH impacted soil above Table I closure criteria has been removed. Discrete soil samples will be collected from the sidewalls and bottom of the excavation if any staining is observed. Samples will be collected directly from Track-hoe bucket if excavation cannot safely be accessed.
- TP-2, TP-5, TP-6, TP-7, TP-9, TP-11, TP-13, TP-17, SB-1, and SB-2 will be excavated to six (6) feet below grade surface or until the soils in the surface to six (6) feet below grade surface exhibit benzene, BTEX, TPH and chloride concentrations below Table I **(Standard A)** closure criteria. Confirmation bottomhole and sidewall samples will be collected by way of five (5) point composite samples from areas representing no greater than two hundred (200) square feet to ensure that soil remaining above six (6) feet meet the requirements set forth by NMAC 19.15.29.12 and 13. Discrete soil samples will be collected from the sidewalls and bottom of the excavation if any staining is observed.
- After all sidewall confirmation samples exhibit benzene, BTEX, TPH, and chloride concentrations below Table I **(Standard A)**, the excavation will be extended out ten (10) feet in all directions and a twenty (20) millimeter synthetic liner will be installed in the bottom of the excavation. Figure 2: Site Assessment: Soil Analytical Results Map, depicts the extent of the liner.

All confirmation samples will be taken to a certified laboratory and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300.

Area B:

GHD, on behalf of EOG, proposes to excavate the areas to the following depths:

- TP-19, TP-23, TP-26, TP-27, TP-28 and SB-4 will be excavated to four (4) feet bgs or until the soils in the surface to four (4) feet below grade surface exhibit TPH concentrations below 100

mg/kg and chloride concentrations below 600 mg/kg. GHD, on behalf of EOG, proposes confirmation bottomhole and sidewall samples be collected by way of five (5) point composite samples from areas representing no greater than two hundred (200) square feet to ensure that soil remaining above and below four (4) feet meet the requirements set forth by NMAC 19.15.29.12 and 13 prior to the commencement of backfill activities. Discrete soil samples will be collected from the sidewalls and bottom of the excavation if any staining is observed.

- TP-22 will be excavated from four (4) to seven (7) feet below grade surface or until TPH concentration are below Table I **(Standard B)** closure criteria. Confirmation bottomhole and sidewall samples will be collected by way of five (5) point composite samples from areas representing no greater than 200 square feet to ensure all TPH impacted soil above Table I closure criteria has been removed. Discrete soil samples will be collected from the sidewalls and bottom of the excavation if any staining is observed.

All confirmation samples will be taken to a certified laboratory and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Area B will be backfilled with non-impacted material once analytical results indicate benzene, BTEX, TPH and chloride concentrations are below Table 1 **(Standard B)** closure criteria.

Area A and Area B:

The excavated areas will be backfilled with non-impacted soils imported to the Site. Excavated soils will be transported to an NMOCD approved disposal facility for disposal. The anticipated volume of soil to be disposed of is approximately 8,100 cubic yards. Due to the large size of the excavation, the remediation will be performed within 140 days after the work plan has been approved. If benzene, BTEX, or TPH concentrations are above Table I closure criteria in any area after maximum excavation depths have been reached, a new work plan will be submitted to the NMOCD for approval.

If you have any questions or comments concerning this Site Characterization and Remediation Work Plan Report, please do not hesitate to contact our Midland office at (432) 686-0086.

Sincerely,

GHD

Becky Haskell
Senior Project Manager

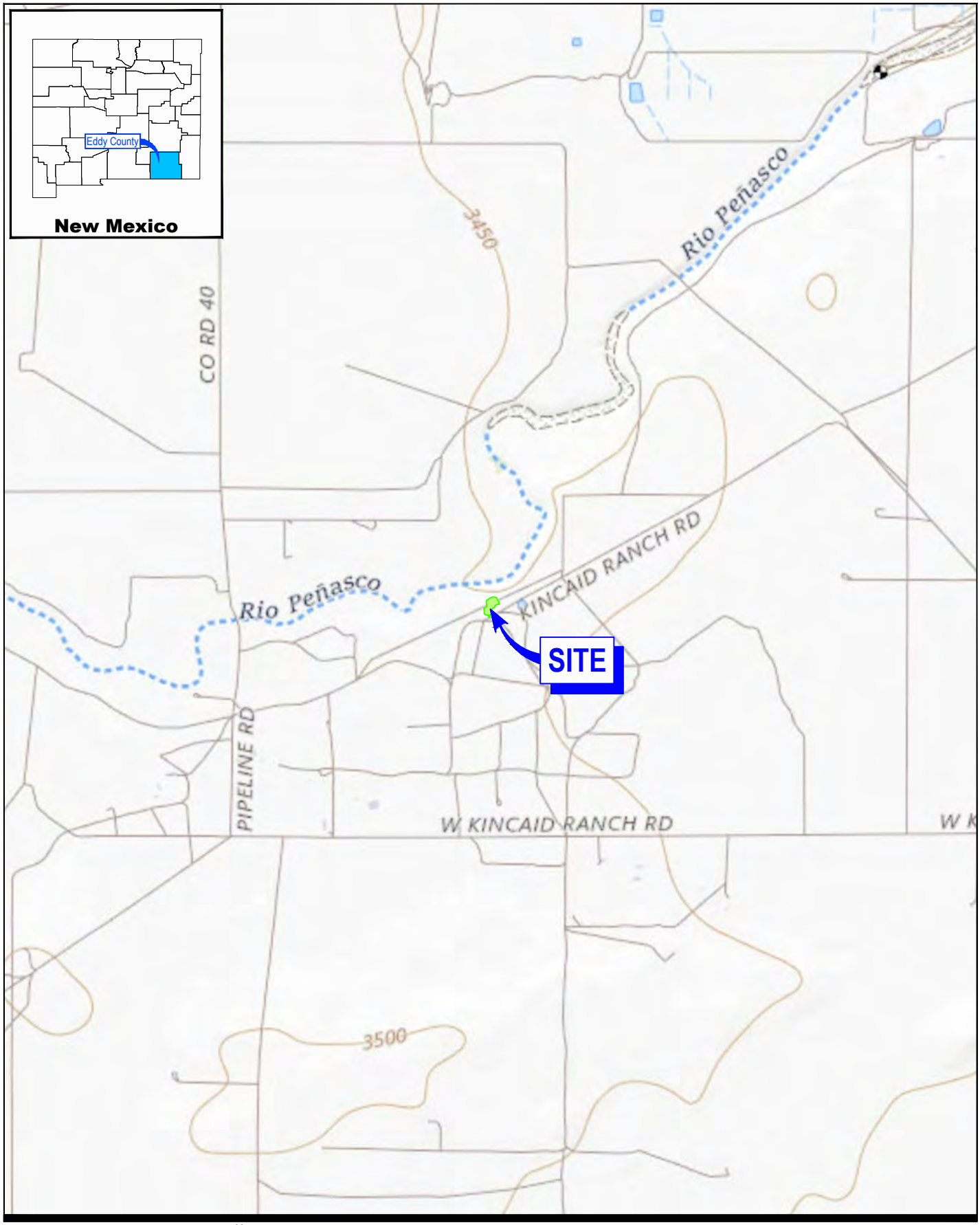
Zach H. Comino
Field Geologist

BH/ZC/1

Encl. Figure 1 – Site Location Map
Figure 2 – Site Assessment: Soil Analytical Results Map
Table 1 – Summary of Soil Analytical Data for Area A
Table 2 – Summary of Soil Analytical Data for Area B
Attachment A – Site Characterization Documentation
Attachment B – Soil Boring Logs
Attachment C – Laboratory Analytical Reports and Chain-of-Custody Documentation

cc: Chase Settle

Figures



0 1000 2000 ft

Coordinate System:
NAD 1983 StatePlane-
New Mexico East (US Feet)

N

GHD

EOG RESOURCES
EDDY COUNTY, NEW MEXICO
HORNBAKER BA BATTERY

SITE LOCATION MAP

Project No. **11228980-02**
Date **December 2021**

FIGURE 1

Filename: N:\US\Midland\Projects\562\11228980\Digital_Design\ACAD\Figures\RPT001\11228980-GHD-0000-RPT-EN-0101_DL-001.dwg

Data Source: USGS 7.5 Minute Quad "Dayton, Artesia, New Mexico"
Lat/Long: 32.7211° North, 104.4333° West

Area A

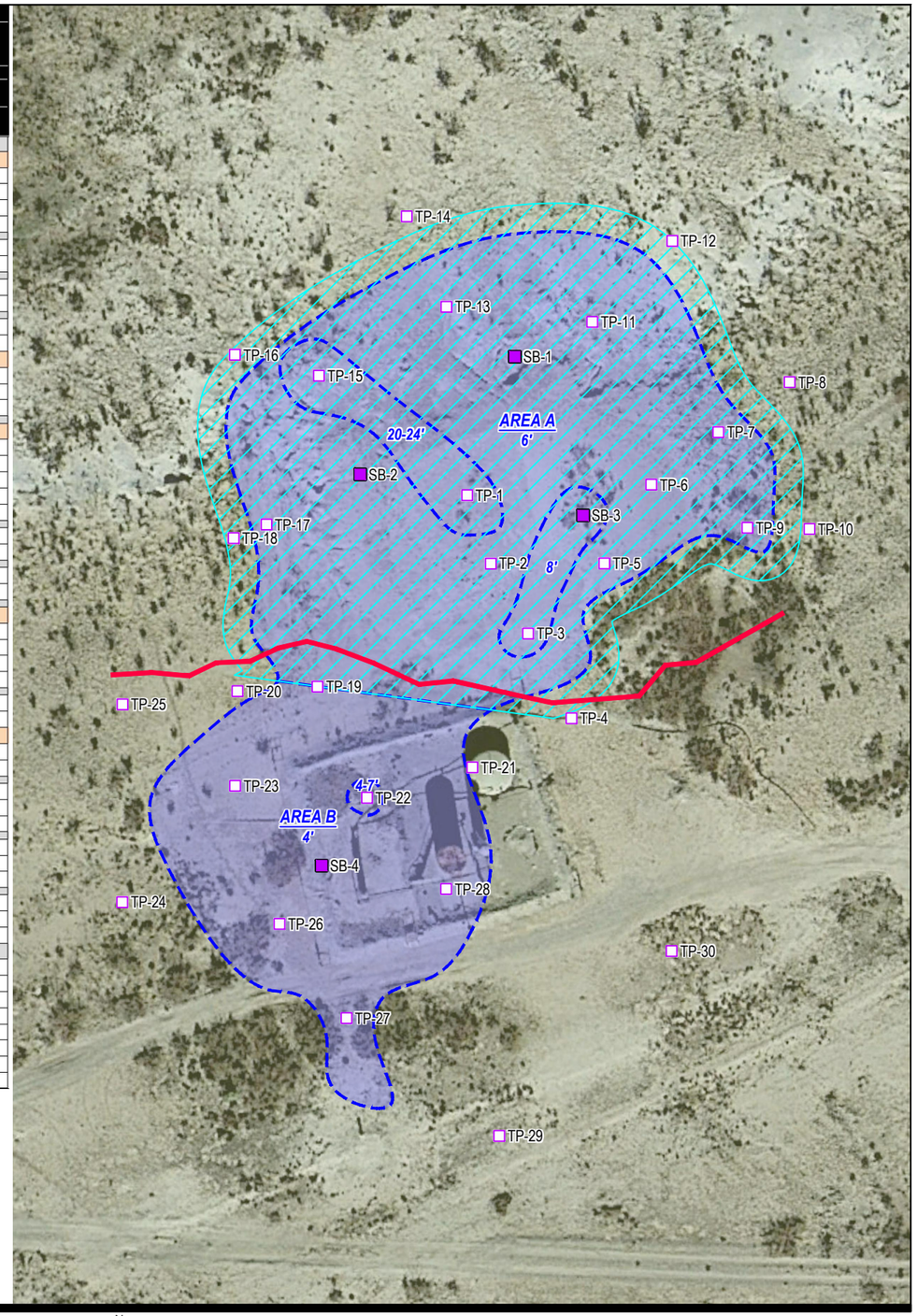
Sample ID	Sample Date	Depth (feet bgs)	Benzene (mg/Kg)	BTEX (mg/Kg)	TPH Total GRO/DRO/MRO (mg/Kg)	Chloride (mg/Kg)
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC			
			10 mg/Kg	50 mg/Kg	100 mg/Kg	600 mg/Kg
Initial Assessment Samples						
TP1-6	6/10/21	6	**5.2**	**78.2**	**17,000**	**2,600**
TP1-20	7/13/21	20	**0.033**	**2.833**	**1,408**	**650**
TP2-2	6/10/21	2	<0.025	<0.098	<50	**1,400**
TP2-5	6/10/21	5	<0.025	<0.10	**97**	**570**
TP2-6	6/15/21	6	<0.025	<0.10	**14**	**2,200**
TP2-12	7/13/21	12	<0.025	<0.10	<50	**4,700**
TP2-16	7/13/21	16	<0.024	<0.096	<47	**6,000**
TP2-20	7/13/21	20	<0.025	<0.098	<48	**8,600**
TP3-2	6/10/21	2	<0.12	<0.50	**630**	**1,500**
TP3-5	6/10/21	5	<0.12	<0.50	**280**	**980**
TP3-6	6/15/21	6	<0.025	<0.098	**130**	**750**
TP3-8	6/15/21	8	<0.025	<0.097	**15**	**750**
TP3-10	7/12/21	10	<0.023	<0.094	<49	**610**
TP3-14	7/12/21	14	<0.024	<0.095	<48	**590**
TP4-S	6/10/21	Surface	<0.024	<0.098	<47	<60
TP4-2	6/10/21	2	<0.025	<0.098	<46	**130**
TP5-2	6/10/21	2	<0.024	<0.098	<4.9	**3,400**
TP5-5	6/10/21	5	<0.025	<0.099	<4.9	**2,100**
TP5-8	6/11/21	8	<0.024	<0.095	<48	**2,900**
TP5-10	6/11/21	10	<0.023	<0.094	<49	**2,200**
TP5-12	7/13/21	12	<0.025	<0.10	<49	**5,400**
TP5-16	7/13/21	16	<0.025	<0.10	<49	**7,300**
TP5-20	7/13/21	20	<0.025	<0.099	<50	**9,200**
TP6-2	6/10/21	2	<0.025	<0.099	<49	**7,200**
TP6-5	6/10/21	5	<0.025	<0.098	<43	**4,000**
TP6-6	6/11/21	6	<0.024	<0.097	<45	**4,900**
TP6-10	6/11/21	10	<0.024	<0.096	<49	**920**
TP6-12	7/13/21	12	<0.025	<0.099	<48	**8,500**
TP6-16	7/13/21	16	<0.025	<0.10	<48	**9,900**
TP6-20	7/13/21	20	<0.025	<0.099	<46	**9,900**
TP7-2	6/10/21	2	<0.025	<0.098	<47	**1,100**
TP7-5	6/10/21	5	<0.025	<0.1	<50	**280**
TP8-S	6/10/21	Surface	<0.12	<0.5	<47	<60
TP8-2	6/10/21	2	<0.025	<0.099	<49	**250**
TP9-2	6/10/21	2	<0.024	<0.097	<47	**3,900**
TP9-5	6/10/21	5	<0.025	<0.099	<50	**3,200**
TP9-6	6/11/21	6	<0.025	<0.050	<50	**710**
TP9-8	7/13/21	8	<0.023	<0.094	**26**	**590**
TP9-10	7/13/21	10	<0.024	<0.096	**17**	**140**
TP10-S	6/10/21	Surface	<0.12	<0.50	<50	<61
TP10-2	6/10/21	2	<0.025	<0.099	<48	**320**
TP11-1	6/10/21	1	<0.025	<0.098	<48	**1,900**
TP11-3	6/11/21	3	<0.025	<0.099	<4.9	**1,400**
TP11-5	6/11/21	5	<0.024	<0.097	<50	**610**
TP11-8	7/13/21	8	<0.024	<0.098	<50	**8,600**
TP11-12	7/13/21	12	<0.024	<0.096	<49	**9,500**
TP11-15	7/13/21	15	<0.025	<0.10	<49	**8,800**
TP11-18	7/13/21	18	<0.024	<0.097	<49	**10,000**
TP11-20	7/13/21	20	<0.025	<0.099	<48	**16,000**
TP12-S	6/10/21	Surface	<0.025	<0.099	<49	<60
TP12-1	6/10/21	1	<0.025	<0.099	<49	**90**
TP13-2	6/10/21	2	<0.024	<0.098	<48	**4,600**
TP13-5	6/11/21	5	<0.023	<0.091	<48	**5,200**
TP13-7	7/13/21	7	<0.025	<0.099	<47	**11,000**
TP13-14	7/13/21	14	<0.025	<0.098	<49	**8,500**
TP13-20	7/13/21	20	<0.024	<0.098	<47	**13,000**
TP14-S	6/10/21	Surface	<0.025	<0.099	<48	<60
TP14-2	6/10/21	2	<0.025	<0.1	<48	**310**
TP15-1	6/10/2021	1	<0.025	<0.098	<48	**2,400**
TP15-6	6/11/21	6	<0.024	**0.42**	**1,334**	**3,300**
TP15-10	6/11/21	10	<0.025	**0.614**	**1,183**	**2,200**
TP15-14	7/13/21	14	<0.025	<0.099	<48	**4,200**
TP15-16	7/13/21	16	<0.025	**0.371**	**569.7**	**6,000**
TP15-20	7/13/21	20	<0.025	<0.099	<50	**6,100**
TP16-S	6/10/21	Surface	<0.025	<0.1	<47	<60
TP16-2	6/10/21	2	<0.025	<0.1	<50	**150**
TP17-2	6/10/2021	2	<0.024	<0.097	<49	**2,700**
TP17-4	6/11/21	4	<0.024	<0.095	<50	**1,600**
TP17-8	7/14/21	8	<0.025	<0.099	<49	**2,500**
TP17-14	7/14/21	14	<0.023	<0.093	<48	**5,100**
TP17-20	7/14/21	20	<0.024	<0.095	<50	**9,200**
TP18-S	6/10/21	Surface	<0.025	<0.1	<48	<60
TP18-2	6/10/21	2	<0.024	<0.097	<50	**66**

Area A

Sample ID	Sample Date	Depth (feet bgs)	Benzene (mg/Kg)	BTEX (mg/Kg)	TPH Total GRO/DRO/MRO (mg/Kg)	Chloride (mg/Kg)
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC			
			10 mg/Kg	50 mg/Kg	100 mg/Kg	600 mg/Kg
Soil Boring Samples						
SB-1-5	12/8/2021	5	<0.024	<0.097	**12**	**5,900**
SB-1-10	12/8/2021	10	<0.024	<0.098	<46	**4,600**
SB-1-15	12/8/2021	15	<0.024	<0.096	<44	**6,300**
SB-1-20	12/8/2021	20	<0.024	<0.096	**11**	**5,700**
SB-1-25	12/8/2021	25	<0.023	<0.093	<50	**9,200**
SB-1-30	12/8/2021	30	<0.025	<0.099	<48	**5,400**
SB-1-35	12/8/2021	35	<0.024	<0.098	<47	**5,100**
SB-1-40	12/8/2021	40	<0.024	<0.097	<49	**6,800**
SB-1-45	12/8/2021	45	<0.024	<0.094	<46	**7,900**
SB-1-50	12/8/2021	50	<0.023	<0.094	<46	**6,500**
SB-1-60	12/8/2021	60	<0.023	<0.094	<45	**9,100**
SB-1-70	12/8/2021	70	<0.023	<0.093	<45	**6,000**
SB-1-80	12/8/2021	80	<0.025	<0.10	**71**	**6,900**
SB-1-90	12/8/2021	90	<0.023	<0.093	<46	**2,400**
SB-1-95	12/8/2021	95	<0.025	<0.099	<49	**540**
SB-1-100	12/8/2021	100	<0.025	<0.10	<42	**97**
SB-2-5	12/8/2021	5	<0.023	<0.093	<50	**9,500**
SB-2-10	12/8/2021	10	<0.023	<0.093	<48	**11,000**
SB-2-15	12/8/2021	15	<0.024	<0.096	<48	**7,000**
SB-2-20	12/8/2021	20	<0.024	<0.094	<49	**7,000**
SB-2-25	12/8/2021	25	<0.023	<0.092	<49	**8,500**
SB-2-30	12/8/2021	30	<0.023	<0.092	<44	**5,100**
SB-2-35	12/8/2021	35	<0.023	<0.092	<50	**2,900**
SB-2-40	12/8/2021	40	<0.024	<0.096	<48	**4,900**
SB-2-45	12/8/2021	45	<0.024	<0.094	<44	**3,600**
SB-2-50	12/8/2021	50	<0.025	<0.10	<46	**3,000**
SB-2-55	12/8/2021	55	<0.024	<0.096	<49	**5,100**
SB-2-60	12/8/2021	60	<0.024	<0.095	<45	**6,800**
SB-2-70	12/8/2021	70	<0.024	<0.096	<49	**2,400**
SB-2-80	12/8/2021	80	<0.023	<0.093	<49	**530**
SB-2-85	12/8/2021	85	<0.024	<0.093	<46	<59
SB-3-5	12/14/2021	5	<0.023	<0.093	**860**	**1,100**
SB-3-10	12/14/2021	10	<0.024	<0.095	**9**	**1,200**
SB-3-15	12/14/2021	15	<0.025	<0.098	<47	**3,200**
SB-3-20	12/14/2021	20	<0.025	<0.099	<47	**6,100**
SB-3-25	12/14/2021	25	<0.025	<0.099	<47	**5,500**
SB-3-30	12/14/2021	30	<0.025	<0.098	<49	**5,900**
SB-3-35	12/14/2021	35	<0.024	<0.097	<50	**6,500**
SB-3-40	12/14/2021	40	<0.025	<0.099	<46	**7,100**
SB-3-45	12/14/2021	45	<0.024	<0.098	<39	**6,900**
SB-3-50	12/14/2021	50	<0.025	<0.098	<48	**5,400**
SB-3-55	12/14/2021	55	<0.025	<0.099	<48	**5,500**
SB-3-60	12/14/2021	60	<0.024	<0.096	<49	**5,000**
SB-3-70	12/14/2021	70	<0.023	<0.092	<47	**2,300**
SB-3-75	12/14/2021	75	<0.024	<0.097	<46	**5,100**
SB-3-85	12/14/2021	85	<0.023	<0.094	**9.5**	**1,300**
SB-3-90	12/14/2021	90	<0.023	<0.092	**158**	<60
SB-3-95	1/7/2022	95	<0.025	<0.098	<46	<60

Area B

Sample ID	Sample Date	Depth (feet bgs)	Benzene (mg/Kg)	BTEX (mg/Kg)	TPH Total GRO/DRO/MRO (mg/Kg)	Chloride (mg/Kg)
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC			
			10 mg/Kg	50 mg/Kg	2,500 mg/Kg	20,000 mg/Kg
Initial Assessment Samples						
TP19-2	6/10/21	2	<0.049	<0.098	<50	**2,100**
TP19-5	6/10/21	5	<0.024	<0.097	<49	**870**
TP19-6	6/11/21	6	<0.024	<0.097	<48	**720**
TP19-10	7/14/21	10	<0.023	<0.093	<49	**210**
TP19-14	7/14/21	14	<0.024	<0.096	<47	**180**
TP20-S	6/10/21	Surface	<0.025	<0.098	<48	<59
TP20-2	6/10/21	2	<0.025	<0.099	<47	**310**
TP21-S	6/15/2021	Surface	<0.025	<0.10	<45	<60
TP21-2	6/15/2021	2	<0.025	<0.099	<43	<60
TP22-S	6/15/2021	Surface	<0.025	<0.098	<50	<60
TP22-2	6/15/2021	2	<0.025	<0.099	**195**	<60
TP22-4	7/14/2021	4	<0.12	<0.47	**2,700**	**1,000**
TP22-7	7/14/2021	7	<0.023	<0.093	**540**	**2,100**
TP22-14	7/14/2021	14	<0.023	<0.093	<46	**1,500**
TP22-20	7/14/2021	20	<0.024	<0.096	**540**	**2,200**
TP23-2	6/15/2021	2	<0.025	<0.10	<47	**5,700**
TP23-6	6/15/2021	6	<0.025	<0.098	<44	**1,700**
TP23-9	6/15/2021	9	<0.023	<0.092	<45	**820**
TP23-10	6/15/2021	10	<0.023	<0.092	<48	**710**
TP23-12	7/14/2021	12	<0.025	<0.098	<48	**260**
TP23-14	7/14/2021	14	<0.025	<0.099	<49	<60
TP24-S	6/15/2021	Surface	<0.024	<0.095	<50	**74**
TP24-2	6/15/2021	2	<0.025	<0.099	<48	<60
TP25-S	6/15/2021	Surface	<0.025	<0.098	<51	<60
TP25-2	6/15/2021	2	<0.025	<0.099	<47	<60
TP26-2	6/15/2021	2	<0.025	<0.099	<45	**1,500**
TP26-6	6/15/2021	6	<0.025	<0.098	<46	**710**
TP26-8	7/14/2021	8	<0.024	<0.096	<48	**2,100**
TP26-16	7/14/2021	16	<0.024	<0.095	<48	**1,900**
TP26-20	7/14/2021	20	<0.024	<0.096	<48	**1,300**
TP27-S	6/15/2021	Surface	<0.025	<0.099	**74.9**	**76**
TP27-2	6/15/2021	2	<0.024	<0.097	**149**	**120**
TP27-4	7/14/2021	4	<0.024	<0.098	<50	**1,100**
TP27-11	7/14/2021	11	<0.024	<0.094	<47	**700**
TP27-16	7/14/2021	16	<0.023	<0.092	<47	**200**
TP28-8	7/14/2021	8	<0.025	<0.099	<49	**2,400**
TP28-12	7/14/2021	12	<0.024	<0.098	<48	**2,100**
TP28-20	7/14/2021	20	<0.025	<0.099	<46	**570**
TP29-S	7/15/2021	Surface	<0.025	<0.10	<48	<60
TP29-2	7/15/2021	2	<0.025	<0.098	<49	<60
TP29-5	7/15/2022	5	<0.025	<0.10	<48	<60
TP30-S	7/15/2021	Surface	<0.024	<0.097	<49	<60
TP30-2	7/15/2021	2	<0.025	<0.10	<49	<60
TP30-5	7/15/2022	5	<0.024	<0.097	<49	<60
Soil Boring Samples						
SB-4-5	12/8/2021	5	<0.11	<0.46	**770**	**2,000**
SB-4-10	12/8/2021	10	<0.12	>0.46	**163**	**2,900**
SB-4-15	12/8/2021	15	<0.12	<0.48	<49	**2,900**
SB-4-20	12/8/2021	20	<0.12	>0.46	**87**	**2,600**
SB-4-25	12/8/2021	25	<0.024	<0.097	<50	**2,100**
SB-4-30	12/8/2021	30	<0.025	<0.099	<48	**880**
SB-4-35	12/8/2021	35	<0.025	<0.098	<49	**340**
SB-4-40	12/8/2021	40	<0.024	<0.095	<50	**150**



LEGEND

- 4' — PROPOSED EXCAVATED AREA
- PROPOSED LINER AREA
- SIGNIFICANT WATERCOURSE BOUNDARY
- TEST PIT LOCATION
- SOIL BORING LOCATION
- DEPTH — DEPTH OF SAMPLE (FT)
- BTEX — BENZENE, TOLUENE, ETHYLBENZENE & XYLENES CONCENTRATION (MG/KG)
- TPH — TOTAL PETROLEUM HYDROCARBONS CONCENTRATION (MG/KG)

NOTES:

1. RESULTS IN MILLIGRAMS PER KILOGRAM (MG/KG).
2. SEE TABLE 1 FOR FULL ANALYTICAL RESULTS/DETAILS.
3. YELLOW SHADED CELLS INDICATE EXCEEDANCE.

0 25 50 ft

Coordinate System: NAD 1983 (2011) StatePlane- New Mexico East (US Feet)

N

GHD

EOG RESOURCES
EDDY COUNTY, NEW MEXICO
HORNBAKER BA BATTERY

SITE ASSESSMENT: SOIL ANALYTICAL RESULTS MAP

Project No. **11228980-02**
Date **April 2022**

FIGURE 2

Filename: \\ghdnet\ghd\US\Midland\Projects\562\11228980\Digital_Design\ACAD\Figures\RPT001\11228980-GHD-0000-RPT-EN-0101_DL-001.dwg
Plot Date: 21 April 2022 10:13 AM

Data Source: Image © 2021 Google - Imagery Date: December 21, 2019
Lat/Long: 32.7211° North, 104.4333° West

Tables

Table 1
Summary of Soil Analytical Data For Area A
Hornbaker BA Battery
EOG Resources
Eddy County, New Mexico

Area A													
Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	---	---	---	100 mg/Kg	600 mg/Kg
Initial Assessment Samples												
TP1-6	6/10/21	6	**5.2**	**20**	**17**	**36**	**78.2**	**1,100**	**9,500**	**6,400**	**17,000**	**2,600**
TP1-20	7/13/21	20	**0.033**	<0.050	**1.2**	**1.6**	**2.833**	**58**	**760**	**590**	**1,408**	**650**
TP2-2	6/10/21	2	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<50	<50	**1,400**
TP2-5	6/10/21	5	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	**48**	**49**	**97**	**570**
TP2-6	6/15/21	6	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	**14**	<45	**14**	**2,200**
TP2-12	7/13/21	12	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<10	<50	<50	**4,700**
TP2-16	7/13/21	16	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.5	<47	<47	**6,000**
TP2-20	7/13/21	20	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<48	<48	**8,600**
TP3-2	6/10/21	2	<0.12	<0.25	<0.25	<0.50	<0.50	<25	**200**	**430**	**630**	**1,500**
TP3-5	6/10/21	5	<0.12	<0.25	<0.25	<0.50	<0.50	<25	**100**	**180**	**280**	**980**
TP3-6	6/15/21	6	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	**38**	**92**	**130**	**750**
TP3-8	6/15/21	8	<0.025	<0.048	<0.048	<0.097	<0.097	<4.8	**15**	<45	**15**	**750**
TP3-10	7/12/21	10	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.8	<49	<49	**610**
TP3-14	7/12/21	14	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.6	<48	<48	**590**
TP4-S	6/10/21	Surface	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.4	<47	<47	<60
TP4-2	6/10/21	2	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.2	<46	<46	**130**
TP5-2	6/10/21	2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.2	<46	<4.9	**3,400**
TP5-5	6/10/21	5	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<8.7	<43	<4.9	**2,100**
TP5-8	6/11/21	8	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.7	<48	<48	**2,900**
TP5-10	6/11/21	10	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.8	<49	<49	**2,200**
TP5-12	7/13/21	12	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<49	**5,400**
TP5-16	7/13/21	16	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<49	**7,300**
TP5-20	7/13/21	20	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<50	<50	**9,200**
TP6-2	6/10/21	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<49	<49	**7,200**
TP6-5	6/10/21	5	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<8.6	<43	<43	**4,000**
TP6-6	6/11/21	6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.0	<45	<45	**4,900**
TP6-10	6/11/21	10	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.9	<49	<49	**920**
TP6-12	7/13/21	12	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<48	<48	**8,500**

Table 1
Summary of Soil Analytical Data For Area A
Hornbaker BA Battery
EOG Resources
Eddy County, New Mexico

Area A												
Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	---	---	---	100 mg/Kg	600 mg/Kg
TP6-16	7/13/21	16	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<48	**9,900**
TP6-20	7/13/21	20	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.3	<46	<46	**9,900**
TP7-2	6/10/21	2	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.4	<47	<47	**1,100**
TP7-5	6/10/21	5	<0.025	<0.050	<0.050	<0.1	<0.1	<5.0	<10	<50	<50	**280**
TP8-S	6/10/21	Surface	<0.12	<0.25	<0.25	<0.5	<0.5	<25	<9.5	<47	<47	<60
TP8-2	6/10/21	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.7	<49	<49	**250**
TP9-2	6/10/21	2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.5	<47	<47	**3,900**
TP9-5	6/10/21	5	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<10	<50	<50	**3,200**
TP9-6	6/11/21	6	<0.025	<0.050	<0.050	<0.050	<0.050	<5.0	<10	<50	<50	**710**
TP9-8	7/13/21	8	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	**26**	<47	**26**	**590**
TP9-10	7/13/21	10	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	**17**	<48	**17**	**140**
TP10-S	6/10/21	Surface	<0.12	<0.25	<0.25	<0.50	<0.50	<25	<10	<50	<50	<61
TP10-2	6/10/21	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.6	<48	<48	**320**
TP11-1	6/10/21	1	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<48	<48	**1,900**
TP11-3	6/11/21	3	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.8	<49	<4.9	**1,400**
TP11-5	6/11/21	5	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9,9	<50	<50	**610**
TP11-8	7/13/21	8	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<50	<50	**8,600**
TP11-12	7/13/21	12	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.8	<49	<49	**9,500**
TP11-15	7/13/21	15	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.9	<49	<49	**8,800**
TP11-18	7/13/21	18	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.8	<49	<49	**10,000**
TP11-20	7/13/21	20	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48	**16,000**
TP12-S	6/10/21	Surface	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.7	<49	<49	<60
TP12-1	6/10/21	1	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.8	<49	<49	**90**
TP13-2	6/10/21	2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<48	<48	**4,600**
TP13-5	6/11/21	5	<0.023	<0.046	<0.046	<0.091	<0.091	<4.6	<9.5	<48	<48	**5,200**
TP13-7	7/13/21	7	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<47	<47	**11,000**
TP13-14	7/13/21	14	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<49	**8,500**
TP13-20	7/13/21	20	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<47	<47	**13,000**

Table 1
Summary of Soil Analytical Data For Area A
Hornbaker BA Battery
EOG Resources
Eddy County, New Mexico

Area A												
Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	---	---	---	100 mg/Kg	600 mg/Kg
TP14-S	6/10/21	Surface	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<48	<48	<60
TP14-2	6/10/21	2	<0.025	<0.050	<0.050	<0.1	<0.1	<5.0	<9.6	<48	<48	**310**
TP15-1	6/10/2021	1	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<48	<48	**2,400**
TP15-6	6/11/21	6	<0.024	<0.048	<0.048	**0.42**	**0.42**	**34**	**900**	**400**	**1,334**	**3,300**
TP15-10	6/11/21	10	<0.025	<0.047	**0.054**	**0.56**	**0.614**	**43**	**800**	**340**	**1,183**	**2,200**
TP15-14	7/13/21	14	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.6	<48	<48	**4,200**
TP15-16	7/13/21	16	<0.025	<0.049	**0.071**	**0.30**	**0.371**	**9.7**	**390**	**170**	**569.7**	**6,000**
TP15-20	7/13/21	20	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.9	<50	<50	**6,100**
TP16-S	6/10/21	Surface	<0.025	<0.050	<0.050	<0.1	<0.1	<5.0	<9.5	<47	<47	<60
TP16-2	6/10/21	2	<0.025	<0.050	<0.050	<0.1	<0.1	<5.0	<10	<50	<50	**150**
TP17-2	6/10/2021	2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.8	<49	<49	**2,700**
TP17-4	6/11/21	4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.9	<50	<50	**1,600**
TP17-8	7/14/21	8	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<49	<49	**2,500**
TP17-14	7/14/21	14	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.7	<48	<48	**5,100**
TP17-20	7/14/21	20	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<10	<50	<50	**9,200**
TP18-S	6/10/21	Surface	<0.025	<0.050	<0.050	<0.1	<0.1	<5.0	<9.7	<48	<48	<60
TP18-2	6/10/21	2	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.9	<50	<50	**66**
Soil Boring Samples												
SB-1-5	12/8/2021	5	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	**12**	<44	**12**	**5,900**
SB-1-10	12/8/2021	10	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<46	<46	**4,600**
SB-1-15	12/8/2021	15	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.8	<44	<44	**6,300**
SB-1-20	12/8/2021	20	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	**11**	<47	**11**	**5,700**
SB-1-25	12/8/2021	25	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<10	<50	<50	**9,200**
SB-1-30	12/8/2021	30	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.6	<48	<48	**5,400**
SB-1-35	12/8/2021	35	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<47	<47	**5,100**
SB-1-40	12/8/2021	40	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.9	<49	<49	**6,800**
SB-1-45	12/8/2021	45	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.1	<46	<46	**7,900**
SB-1-50	12/8/2021	50	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.1	<46	<46	**6,500**
SB-1-60	12/8/2021	60	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.1	<45	<45	**9,100**

Table 1
Summary of Soil Analytical Data For Area A
Hornbaker BA Battery
EOG Resources
Eddy County, New Mexico

Area A												
Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	---	---	---	100 mg/Kg	600 mg/Kg
SB-1-70	12/8/2021	70	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.0	<45	<45	6,000
SB-1-80	12/8/2021	80	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	20	51	71	6,900
SB-1-90	12/8/2021	90	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.2	<46	<46	2,400
SB-1-95	12/8/2021	95	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.8	<49	<49	540
SB-1-100	12/8/2021	100	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.3	<42	<42	97
SB-2-5	12/8/2021	5	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.9	<50	<50	9,500
SB-2-10	12/8/2021	10	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.6	<48	<48	11,000
SB-2-15	12/8/2021	15	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.5	<48	<48	7,000
SB-2-20	12/8/2021	20	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.8	<49	<49	7,000
SB-2-25	12/8/2021	25	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.7	<49	<49	8,500
SB-2-30	12/8/2021	30	<0.023	<0.047	<0.047	<0.092	<0.092	<4.7	<8.8	<44	<44	5,100
SB-2-35	12/8/2021	35	<0.023	<0.047	<0.047	<0.092	<0.092	<4.6	<10	<50	<50	2,900
SB-2-40	12/8/2021	40	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<48	<48	4,900
SB-2-45	12/8/2021	45	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<8.8	<44	<44	3,600
SB-2-50	12/8/2021	50	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.3	<46	<46	3,000
SB-2-55	12/8/2021	55	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<49	<49	5,100
SB-2-60	12/8/2021	60	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<8.9	<45	<45	6,800
SB-2-70	12/8/2021	70	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.8	<49	<49	2,400
SB-2-80	12/8/2021	80	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.9	<49	<49	530
SB-2-85	12/8/2021	85	<0.024	<0.047	<0.047	<0.093	<0.093	<4.7	<9.1	<46	<46	<59
SB-3-5	12/14/2021	5	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	250	610	860	1,100
SB-3-10	12/14/2021	10	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	9	<45	9	1,200
SB-3-15	12/14/2021	15	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.4	<47	<47	3,200
SB-3-20	12/14/2021	20	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.5	<47	<47	6,100
SB-3-25	12/14/2021	25	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.3	<47	<47	5,500
SB-3-30	12/14/2021	30	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<49	<49	5,900
SB-3-35	12/14/2021	35	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<50	<50	6,500
SB-3-40	12/14/2021	40	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.2	<46	<46	7,100
SB-3-45	12/14/2021	45	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<7.8	<39	<39	6,900
SB-3-50	12/14/2021	50	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<48	<48	5,400

Table 1
Summary of Soil Analytical Data For Area A
Hornbaker BA Battery
EOG Resources
Eddy County, New Mexico

Area A												
Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	---	---	---	100 mg/Kg	600 mg/Kg
SB-3-55	12/14/2021	55	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48	**5,500**
SB-3-60	12/14/2021	60	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<49	<49	**5,000**
SB-3-70	12/14/2021	70	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.4	<47	<47	**2,300**
SB-3-75	12/14/2021	75	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.1	<46	<46	**5,100**
SB-3-85	12/14/2021	85	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	**9.5**	<47	**9.5**	**1,300**
SB-3-90	12/14/2021	90	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	**48**	**110**	**158**	<60
SB-3-95	1/7/2021	95	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<46	<46	<60

Notes:

1. Values reported in mg/kg
2. < = Value Less than Reporting Limit (RL)
3. Bold Indicates Analyte Detected
4. BTEX analyses by EPA Method SW 8021B.
5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil
7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table 1 Closure Criteria for the site.
8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table 1 Closure Criteria for the site (Surface to 4 Feet Below Grade).
9. J - the target analytes was positively identified below the quantitation limit and above the detection limit.

~~B-BH-2~~ Sample Point Excavated

Table 2
Summary of Soil Analytical Data For Area B
Hornbaker BA Battery
EOG Resources
Eddy County, New Mexico

Area B												
Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
Initial Assessment Samples												
TP19-2	6/10/21	2	<0.049	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<50	<50	**2,100**
TP19-5	6/10/21	5	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<49	<49	**870**
TP19-6	6/11/21	6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.6	<48	<48	**720**
TP19-10	7/14/21	10	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.9	<49	<49	**210**
TP19-14	7/14/21	14	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.4	<47	<47	**180**
TP20-S	6/10/21	Surface	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<48	<48	<59
TP20-2	6/10/21	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.4	<47	<47	**310**
TP21-S	6/15/2021	Surface	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.1	<45	<45	<60
TP21-2	6/15/2021	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<8.5	<43	<43	<60
TP22-S	6/15/2021	Surface	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<50	<50	<60
TP22-2	6/15/2021	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	**45**	**150**	**195**	<60
TP22-4	7/14/2021	4	<0.12	<0.23	<0.23	<0.47	<0.47	<23	**1,300**	**1,400**	**2,700**	**1,000**
TP22-7	7/14/2021	7	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	**230**	**310**	**540**	**2,100**
TP22-14	7/14/2021	14	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.3	<46	<46	**1,500**
TP22-20	7/14/2021	20	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	**190**	**350**	**540**	**2,200**
TP23-2	6/15/2021	2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.3	<47	<47	**5,700**
TP23-6	6/15/2021	6	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<8.8	<44	<44	**1,700**
TP23-9	6/15/2021	9	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.1	<45	<45	**820**
TP23-10	6/15/2021	10	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.7	<48	<48	**710**
TP23-12	7/14/2021	12	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<48	<48	**260**
TP23-14	7/14/2021	14	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.7	<49	<49	<60
TP24-S	6/15/2021	Surface	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<10	<50	<50	**74**
TP24-2	6/15/2021	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48	<60
TP25-S	6/15/2021	Surface	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<51	<51	<60
TP25-2	6/15/2021	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.4	<47	<47	<60
TP26-2	6/15/2021	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.0	<45	<45	**1,500**

Table 2
Summary of Soil Analytical Data For Area B
Hornbaker BA Battery
EOG Resources
Eddy County, New Mexico

Area B												
Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg
TP26-6	6/15/2021	6	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<46	<46	**710**
TP26-8	7/14/2021	8	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.6	<48	<48	**2,100**
TP26-16	7/14/2021	16	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.6	<48	<48	**1,900**
TP26-20	7/14/2021	20	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.6	<48	<48	**1,300**
TP27-S	6/15/2021	Surface	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	**9.9**	**65**	**74.9**	**76**
TP27-2	6/15/2021	2	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	**49**	**100**	**149**	**120**
TP27-4	7/14/2021	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<50	<50	**1,100**
TP27-11	7/14/2021	11	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.3	<47	<47	**700**
TP27-16	7/14/2021	16	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.4	<47	<47	**200**
TP28-8	7/14/2021	8	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.9	<49	<49	**2,400**
TP28-12	7/14/2021	12	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<48	<48	**2,100**
TP28-20	7/14/2021	20	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.3	<46	<46	**570**
TP29-S	7/15/2021	Surface	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.7	<48	<48	<60
TP29-2	7/15/2021	2	<0.025	<0.050	<0.050	<0.098	<0.098	<4.9	<9.8	<49	<49	<60
TP29-5	7/15/2022	5	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.7	<48	<48	<60
TP30-S	7/15/2021	Surface	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<49	<49	<60
TP30-2	7/15/2021	2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<49	<60
TP30-5	7/15/2022	5	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<49	<49	<60
Soil Boring Samples												
SB-4-5	12/8/2021	5	<0.11	<0.23	<0.23	<0.46	<0.46	<23	**290**	**480**	**770**	**2,000**
SB-4-10	12/8/2021	10	<0.12	<0.12	<0.23	>0.46	>0.46	<0.23	**97**	**66**	**163**	**2,900**
SB-4-15	12/8/2021	15	<0.12	<0.24	<0.24	<0.48	<0.48	<24	<9.7	<49	<49	**2,900**
SB-4-20	12/8/2021	20	<0.12	<0.12	<0.12	>0.46	>0.46	<23	**87**	<48	**87**	**2,600**
SB-4-25	12/8/2021	25	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<10	<50	<50	**2,100**
SB-4-30	12/8/2021	30	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48	**880**
SB-4-35	12/8/2021	35	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<49	**340**
SB-4-40	12/8/2021	40	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<10	<50	<50	**150**

Table 2
Summary of Soil Analytical Data For Area B
Hornbaker BA Battery
EOG Resources
Eddy County, New Mexico

Area B												
Sample ID	Sample Date	Depth (feet bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
								GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils <50 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/Kg	---	---	---	50 mg/Kg	1,000 mg/Kg		---	2,500 mg/Kg	20,000 mg/Kg

Notes:

1. Values reported in mg/kg
2. < = Value Less than Reporting Limit (RL)
3. Bold Indicates Analyte Detected
4. BTEX analyses by EPA Method SW 8021B.
5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil
7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table 1 Closure Criteria for the site.
8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table 1 Closure Criteria for the site (Surface to 4 Feet Below Grade).
9. J - the target analytes was positively identified below the quantitation limit and above the detection limit.

~~B-BH-2~~ Sample Point Excavated

Attachment A
Site Characterization Documentation

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Nix Curtis BH Battery
PROJECT NUMBER: 11229322
CLIENT: EOG Resources
LOCATION: Artesia, New Mexico
DRILLING CONTRACTOR: White Drilling Company, Inc

HOLE DESIGNATION: DTW Well
DATE COMPLETED: December 14, 2021
DRILLING METHOD: Air Rotary/Split Spoons
FIELD PERSONNEL: L. Mullins
DRILLER: B. Adkins

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE CHLORIDE (mg/kg)
0	CL-SILTY CLAY, with sand, light brown, dry						
12	CL-SILTY CLAY, light brown, dry	12.00	Backfilled With Cement Grout				
35	CL-CLAY, with silt and caliche interbedded	35.00					
38	CL-CLAY, with fine to medium grained sand, light brown, slightly moist	38.00					
60	CL-SILTY CLAY, with sand and rock interbedded throughout, light brown, slightly damp	60.00					

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11229322 NIX\11229322-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 1/13/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Nix Curtis BH Battery
PROJECT NUMBER: 11229322
CLIENT: EOG Resources
LOCATION: Artesia, New Mexico
DRILLING CONTRACTOR: White Drilling Company, Inc

HOLE DESIGNATION: DTW Well
DATE COMPLETED: December 14, 2021
DRILLING METHOD: Air Rotary/Split Spoons
FIELD PERSONNEL: L. Mullins
DRILLER: B. Adkins

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE CHLORIDE (mg/kg)
70	SP-SAND, with silt, fine to medium grained, light brown, slightly damp	70.00					
107.50	END OF BOREHOLE @ 107.50ft BGS DTW Well was left open for 72 hours to determine presence or absence of groundwater by utilization of a water level meter. No groundwater was present.						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

File: I:\LOG DATABASE\8-CHAR\11-----\1122----\11229322 NIX\11229322-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 1/13/22

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
RA-13120 POD 6 (DTW)		RA-13120

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources Inc.	575-703-6537

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
105 S. 4th Street	Artesia	NM	88210

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	43	02.90	N
	LONGITUDE	104	25	48.14	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Nix Curtis

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1456	John W. White	White Drilling Company, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
12/14/2021	12/21/2021		106'	DRY

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): DRY

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0.0	106.0	6.0	Type 1 Cement-Bentonite Slurry	20.80	Pump Mix w/Trimie Pipe

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0.0	4.0	4.0	Brown silty clayey sand	Y ✓ N	
4.0	12.0	8.0	Tan silty sandy clay	Y ✓ N	
12.0	17.0	5.0	Brown sandy clay	Y ✓ N	
17.0	20.0	3.0	Tan sandstone/sand	Y ✓ N	
20.0	23.0	3.0	Yellow brown sand/sandstone	Y ✓ N	
23.0	25.0	2.0	Tan sand w/gravel	Y ✓ N	
25.0	32.0	7.0	Tan/brown sandy clay	Y ✓ N	
32.0	38.0	6.0	Brown sand/sandy clay	Y ✓ N	
38.0	40.0	2.0	Brown sandy clay w/gravel mixed	Y ✓ N	
40.0	55.0	15.0	Brown sandy clay	Y ✓ N	
55.0	65.0	10.0	Gravel w/brown sand	Y ✓ N	
65.0	66.0	1.0	Tan/brown sand/sandstone	Y ✓ N	
66.0	68.0	2.0	Brown sand w/gravel mixed	Y ✓ N	
68.0	105.0	37.0	Red brown sand/sandstone	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

William B. Atkins

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

John W. White — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

01/04/2022 — DATE

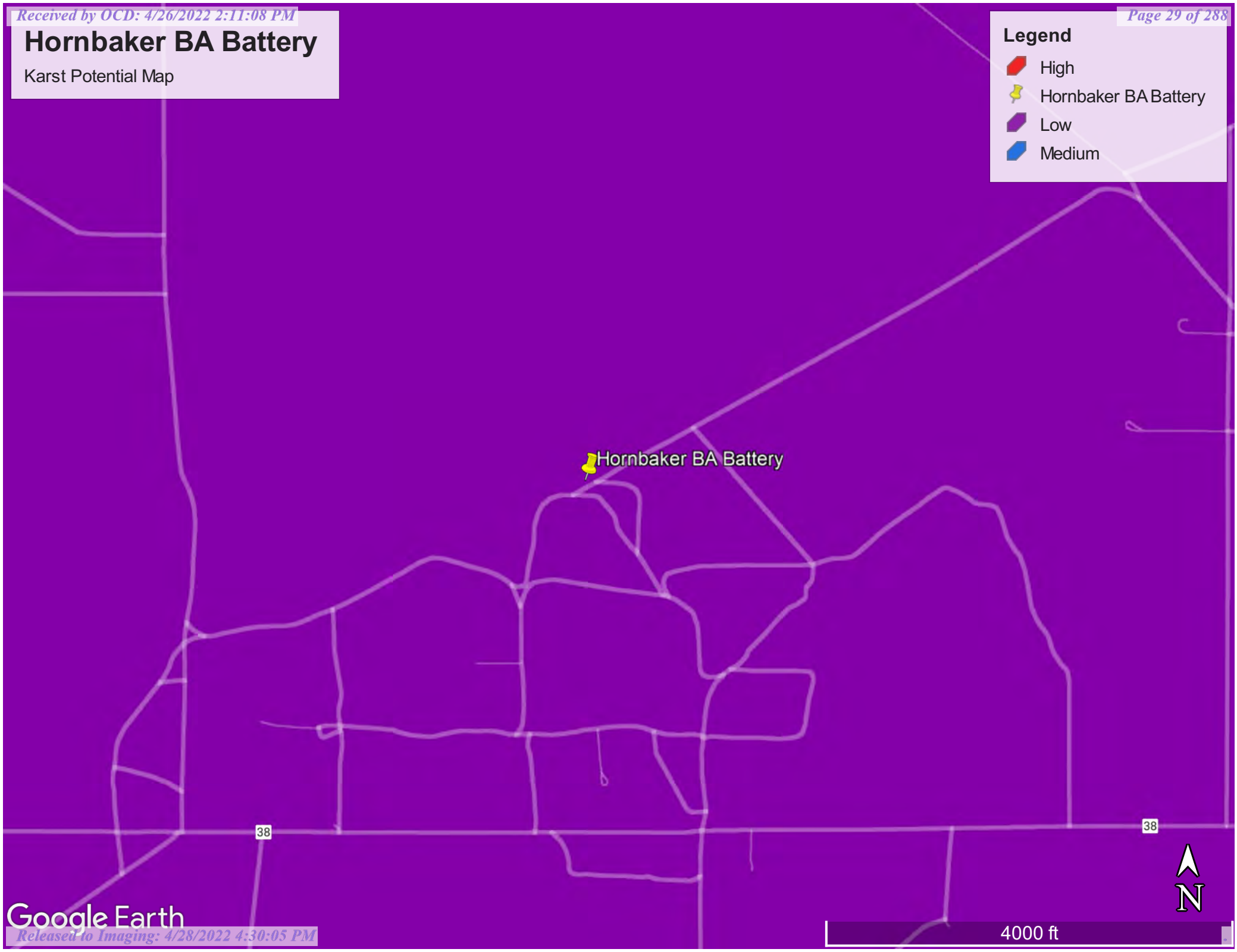
FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

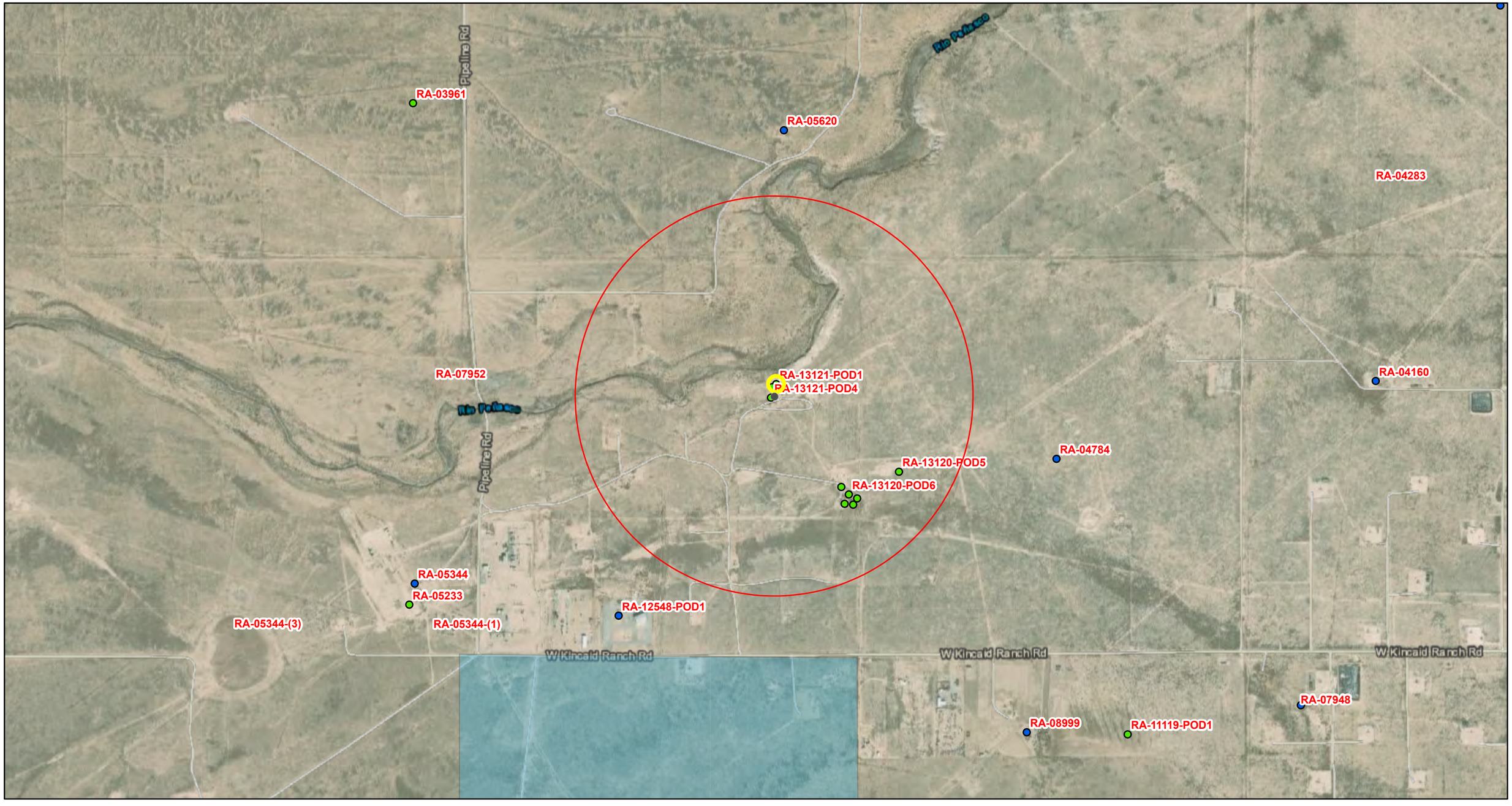
FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

Hornbaker BA Battery

Karst Potential Map



OSE POD Locations Map



3/11/2022, 3:07:54 PM

GIS WATERS PODs
- Active
- Pending

OSE District Boundary

Water Right Regulations
- Closure Area

New Mexico State Trust Lands
- Both Estates
- SiteBoundaries

1:18,056

0 0.17 0.35 0.7 mi

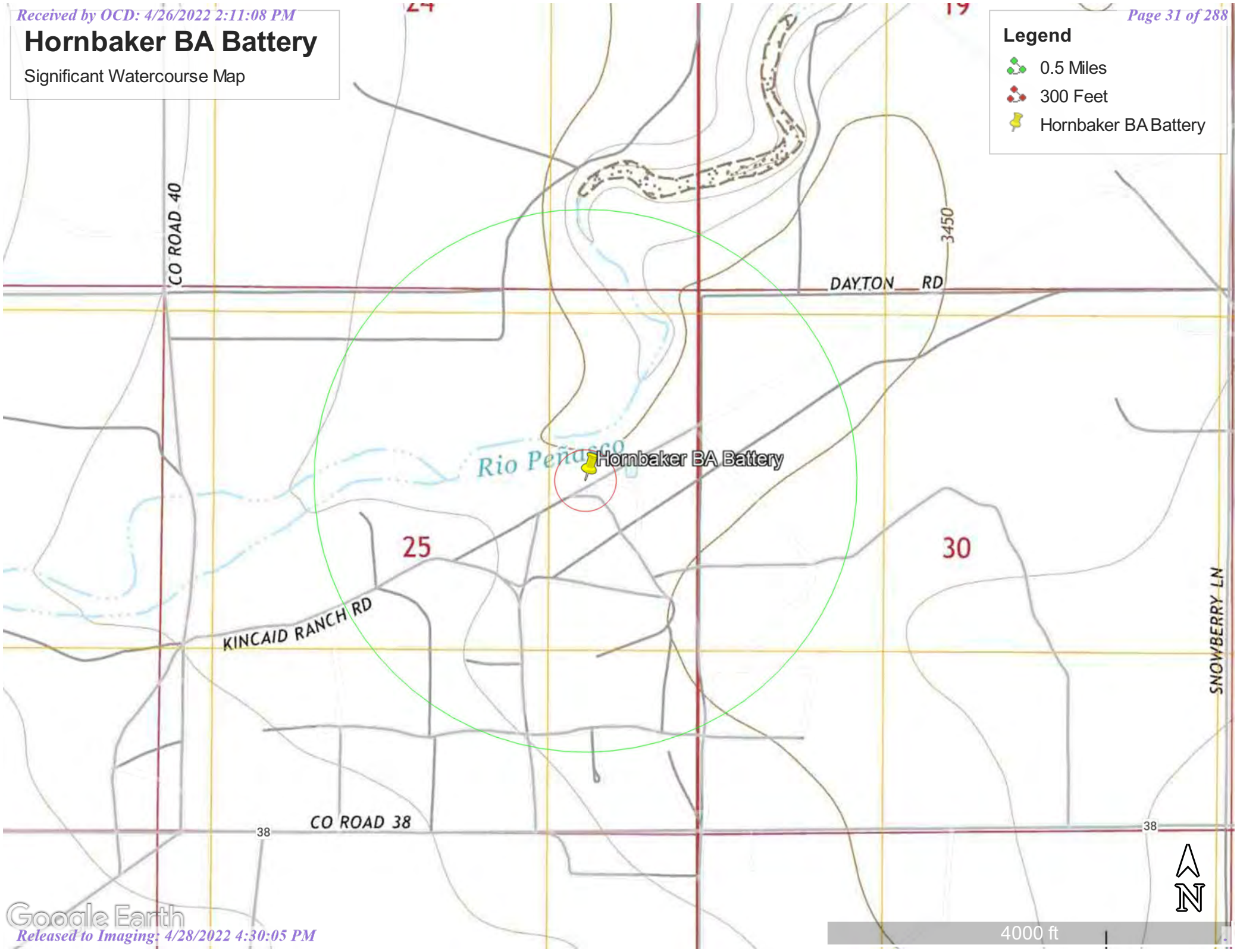
0 0.3 0.6 1.2 km

Esri, HERE, GeoTechnologies, Inc., Esri, HERE, Garmin, GeoTechnologies, Inc., U.S. Department of Energy Office of Legacy Management, Maxar

Unofficial Online Map
These maps are distributed “as is” without warranty of any kind.

Hornbaker BA Battery

Significant Watercourse Map



U.S. Fish and Wildlife Service
National Wetlands Inventory

Hornbaker BA Battery

December 15, 2021

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.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

National Flood Hazard Layer FIRMette

FEMA

104°26'18"W 32°43'31"N

104°25'41"W 32°43'1"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

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*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- 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
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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 12/15/2021 at 9:49 AM 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.

Attachment B
Soil Boring Logs

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Hornbaker BA Battery
PROJECT NUMBER: 11228980
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: White Drilling Company, Inc.

HOLE DESIGNATION: SB-1
DATE COMPLETED: December 10, 2021
DRILLING METHOD: Air Rotary/Split Spoons
FIELD PERSONNEL: Z. Comino/L. Mullins
DRILLER: B. Atkins

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	CHLORIDE (mg/kg)	TOTAL TPH (mg/kg)
5	SM-SILTY SAND, with <0.5 - 1 cm caliche gravel, fine to medium grained sand, white to tan, dry, no odor			5'			5900	12
10	CL-CLAY, with fine sand, white to tan, damp, no odor	10.00		10'			4600	<46
15				15'			6300	<44
20				20'			5700	11
25			Backfilled With Cement Grout	25'			9200	<50
30	- moist from 30.00 to 40.00ft BGS			30'			5400	<48
35				35'			5100	<47
40	CL-CLAY, with fine sand, tan to brown, damp, no odor	40.00		40'			6800	<49
45				45'			7900	<46
50				50'			6500	<46
55								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\11-----\1122----\11228980 HORNBAKER\11228980-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 1/27/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Hornbaker BA Battery
PROJECT NUMBER: 11228980
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: White Drilling Company, Inc.

HOLE DESIGNATION: SB-1
DATE COMPLETED: December 10, 2021
DRILLING METHOD: Air Rotary/Split Spoons
FIELD PERSONNEL: Z. Comino/L. Mullins
DRILLER: B. Atkins

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	CHLORIDE (mg/kg)	TOTAL TPH (mg/kg)
60				60'			9100	<45
70	SM-SILTY SAND, with <0.5 - 1 cm limestone gravel, fine grained sand, red to brown, damp	70.00		70'			6000	<45
80	CL-SILTY CLAY, light brown and gray, slightly moist	80.00		80'			6900	71
90				90'			2400	<46
95	CL-SILTY CLAY, with sand, light brown and gray, slightly moist	95.00		95'			540	<49
100	END OF BOREHOLE @ 100.00ft BGS	100.00		100'			57	<42
105								
110								
115								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11228980 HORNBAKER\11228980-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 1/27/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Hornbaker BA Battery
PROJECT NUMBER: 11228980
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: White Drilling Company, Inc.

HOLE DESIGNATION: SB-2
DATE COMPLETED: December 8, 2021
DRILLING METHOD: Air Rotary/Split Spoons
FIELD PERSONNEL: Z. Comino
DRILLER: B. Atkins

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	CHLORIDE (mg/kg)	TOTAL TPH (mg/kg)
0	SM-SILTY SAND, with <0.5 cm caliche and sandstone gravel, fine to medium grained sand, brown to tan, dry, no odor							
5	CL-CLAY, with fine sand, green to white, damp, no odor	5.00		5'			9500	<50
10				10'			11000	<48
15				15'			7000	<48
20	CL-CLAY, with fine sand, white to tan, damp, no odor	20.00		20'			7000	<49
25			Backfilled With Cement Grout	25'			8500	<49
30				30'			5100	<44
35	CL-CLAY, with fine sand, red to brown, damp, no odor	35.00		35'			2900	<50
40				40'			4900	<48
45				45'			3600	<44
50				50'			3000	<46
55				55'			5100	<49

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11228980 HORNBAKER\11228980-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 1/27/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Hornbaker BA Battery
HOLE DESIGNATION: SB-2
PROJECT NUMBER: 11228980
DATE COMPLETED: December 8, 2021
CLIENT: EOG Resources
DRILLING METHOD: Air Rotary/Split Spoons
LOCATION: Eddy County, New Mexico
FIELD PERSONNEL: Z. Comino
DRILLING CONTRACTOR: White Drilling Company, Inc.
DRILLER: B. Atkins

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	CHLORIDE (mg/kg)	TOTAL TPH (mg/kg)
60	SM-SILTY SAND, trace 0.5 - 2 cm limestone gravel, red to brown, damp, no odor	60.00		60'			6800	<45
70				70'			2400	<49
80	CL-CLAY, with fine sand, red to brown, moist, no odor	80.00		80'			530	<49
85	END OF BOREHOLE @ 85.00ft BGS	85.00		85'			<59	<46
90								
95								
100								
105								
110								
115								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (60', 70', 80', 85')

File: I:\LOG DATABASE\8-CHAR\11-----\1122----\11228980 HORNBAKER\11228980-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 1/27/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Hornbaker BA Battery
PROJECT NUMBER: 11228980
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: White Drilling Company, Inc.

HOLE DESIGNATION: SB-3
DATE COMPLETED: January 7, 2022
DRILLING METHOD: Air Rotary/Split Spoons
FIELD PERSONNEL: Z. Comino/L. Mullins
DRILLER: B. Atkins

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	CHLORIDE (mg/kg)	TOTAL TPH (mg/kg)
5	SP-SAND, with caliche interbedded, fine to medium grained sand, light brown, dry			5'			1100	860
10				10'			1200	9
15	CL-CLAY, with sand, light brown, dry	15.00		15'			3200	<47
20				20'			6100	<47
25			Backfilled With Cement Grout	25'			5500	<47
30	CL-SILTY CLAY, light brown, slightly moist	30.00		30'			5900	<49
35				35'			6500	<50
40				40'			7100	<46
45	CL-SILTY CLAY, with sand, orangish brown, slightly moist	45.00		45'			6900	<39
50				50'			5400	<48
55				55'			5500	<48

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

File: I:\LOG DATABASE\8-CHAR\11-----\1122----\11228980 HORNBAKER\11228980-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 1/27/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Hornbaker BA Battery
PROJECT NUMBER: 11228980
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: White Drilling Company, Inc.

HOLE DESIGNATION: SB-3
DATE COMPLETED: January 7, 2022
DRILLING METHOD: Air Rotary/Split Spoons
FIELD PERSONNEL: Z. Comino/L. Mullins
DRILLER: B. Atkins

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	CHLORIDE (mg/kg)	TOTAL TPH (mg/kg)
60	- rock interbedded throughout from 60.00 to 75.00ft BGS			60'			5000	<49
70				70'			2300	<47
75	SP-SAND, with silt, orangish brown	75.00		75'			5100	<46
85				85'			1300	9.5
90	SM SILTY-SAND, fine to medium grained, well sorted, red to brown, damp, no odor	90.00		90'			<60	158
95				95'			<60	<46
100	END OF BOREHOLE @ 100.00ft BGS	100.00						
105								
110								
115								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

File: I:\LOG DATABASE\8-CHAR\11-----\1122----\11228980 HORNBAKER\11228980-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 1/27/22

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Hornbaker BA Battery
PROJECT NUMBER: 11228980
CLIENT: EOG Resources
LOCATION: Eddy County, New Mexico
DRILLING CONTRACTOR: White Drilling Company, Inc.

HOLE DESIGNATION: SB-4
DATE COMPLETED: December 8, 2021
DRILLING METHOD: Air Rotary/Split Spoons
FIELD PERSONNEL: Z. Comino
DRILLER: B. Atkins

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	CHLORIDE (mg/kg)	TOTAL TPH (mg/kg)
0	SM-SILTY SAND, with <0.5 cm sandstone gravel, fine to medium grained sand, brown to tan, dry, no odor							
5	CL-CLAY, with fine grained sand, well sorted, green to white, damp, no odor	5.00		5'			2000	770
10				10'			2900	163
15			Backfilled With Cement Grout	15'			2900	<49
20	CL-CLAY, with fine sand, white to tan, damp, no odor	20.00		20'			2600	87
25	- white to red from 25.00 to 40.00ft BGS			25'			2100	<50
30				30'			880	<48
35				35'			340	<49
40	END OF BOREHOLE @ 40.00ft BGS	40.00		40'			150	<50
45								
50								
55								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

File: I:\LOG DATABASE\8-CHAR\11-----\1122---\11228980 HORNBAKER\11228980-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 1/27/22

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
RA-13121 POD 1 (SB-1)		RA-13121

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources Inc.	575-703-6537

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
105 S. 4th Street	Artesia	NM	88210

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	43	17.30	N
	LONGITUDE	104	25	59.37	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Hornbaker BA Battery

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1456	John W. White	White Drilling Company, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
12/08/2021	12/10/2021		100'	DRY

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): DRY

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0.0	100.0	6.0	Type 1 Cement-Bentonite Slurry	19.63	Pump Mix w/Trimie Pipe

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0.0	4.0	4.0	Brown sand/clayey sand	Y ✓ N	
4.0	13.0	9.0	Tan/brown sandstone	Y ✓ N	
13.0	51.0	38.0	Brown silty clay w/green silty clay mixed	Y ✓ N	
51.0	100.0	49.0	Brown sandy clay w/gravel mixed	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Chlorides present

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

William B. Atkins

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

John W. White — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

01/04/2022 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
RA-13121 POD 2 (SB-2)		RA-13121

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources Inc.	575-703-6537

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
105 S. 4th Street	Artesia	NM	88210

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	43	16.99	N
	LONGITUDE	104	26	00.10	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Hornbaker BA Battery

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1456	John W. White	White Drilling Company, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
12/08/2021	12/09/2021		85'	DRY

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): DRY

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0.0	85.0	6.0	Type 1 Cement-Bentonite Slurry	16.68	Pump Mix w/Trimie Pipe

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0.0	8.0	8.0	Tan brown silty sand/sandstone caliche	Y ✓ N	
8.0	45.0	37.0	Brown, green and tan molded silty clay	Y ✓ N	
45.0	62.0	17.0	Brown silty clay	Y ✓ N	
62.0	63.0	1.0	Gravel w/clay	Y ✓ N	
63.0	65.0	2.0	Brown silty clay	Y ✓ N	
65.0	85.0	20.0	Brown sandy clay w/gravel mixed	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Chlorides present

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

William B. Atkins

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

John W. White — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

01/04/2022 — DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
RA-13121 POD 3 (SB-3)		RA-13121

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources Inc.	575-703-6537

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
105 S. 4th Street	Artesia	NM	88210

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	43	16.80	N
	LONGITUDE	104	25	59.26	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE

Hornbaker BA Battery

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1456	John W. White	White Drilling Company, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
12/14/2021	12/15/2021		100'	DRY

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): DRY

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0.0	100.0	6.0	Type 1 Cement-Bentonite Slurry	19.62	Pump Mix w/Trimie Pipe

FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0.0	12.0	12.0	Brown sand/clayey sand caliche	Y ✓ N	
12.0	33.0	21.0	Green tan clay	Y ✓ N	
33.0	50.0	17.0	Brown clay w/green and gray clay mixed	Y ✓ N	
50.0	69.0	19.0	Brown clay w/gravel mixed	Y ✓ N	
69.0	75.0	6.0	Tan sandstone streaks	Y ✓ N	
75.0	100.0	25.0	Brown sandy clay w/gravel mixed	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Chlorides present

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

William B. Atkins

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

John W. White — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

01/04/2022 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

WELL RECORD & LOG

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1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
RA-13121 POD 4 (SB-4)		RA-13121

WELL OWNER NAME(S)	PHONE (OPTIONAL)
EOG Resources Inc.	575-703-6537

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
105 S. 4th Street	Artesia	NM	88210

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	43	15.38	N
	LONGITUDE	104	26	00.41	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Hornbaker BA Battery

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1456	John W. White	White Drilling Company, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
12/08/2021	12/09/2021		40.0	DRY

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): DRY

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0.0	40.0	6.0	Type 1 Cement-Bentonite Slurry	7.85	Pump Mix w/Trimie Pipe

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0.0	5.5	5.5	Brown and tan silty clayey sand/caliche	Y ✓ N	
5.5	9.0	3.5	Light brown sandstone	Y ✓ N	
9.0	14.0	5.0	Green brown sandy clay	Y ✓ N	
14.0	16.0	2.0	Light tan silty sandy clay	Y ✓ N	
16.0	20.0	4.0	Yellow brown sandy clay	Y ✓ N	
20.0	28.0	8.0	Brown sandy clay	Y ✓ N	
28.0	40.0	12.0	Molded brown, green and tan silty clay/shell	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Chlorides and hydrocarbon present

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

William B. Atkins

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

John W. White — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

01/04/2022 — DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

Attachment B
Laboratory Analytical Reports and Chain-of-Custody Documentation

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
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June 28, 2021

Tom Larson
GHD
6121 Indian School Road, NE #200
Albuquerque, NM 87110
TEL: (505) 884-0672
FAX:

RE: Hornbaker BA Battery OrderNo.: 2106711

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 35 sample(s) on 6/12/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106711
Project: Hornbaker BA Battery

Lab ID: 2106711-001 **Collection Date:** 6/10/2021 8:20:00 AM
Client Sample ID: TP1-6 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	2600	150		mg/Kg	50	6/17/2021 5:10:12 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	9500	440		mg/Kg	50	6/15/2021 7:36:04 PM	60612
Motor Oil Range Organics (MRO)	6400	2200		mg/Kg	50	6/15/2021 7:36:04 PM	60612
Surr: DNOP	0	70-130	S	%Rec	50	6/15/2021 7:36:04 PM	60612
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	1100	24		mg/Kg	5	6/15/2021 7:28:57 PM	60591
Surr: BFB	692	70-130	S	%Rec	5	6/15/2021 7:28:57 PM	60591
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	5.2	0.12		mg/Kg	5	6/15/2021 7:28:57 PM	60591
Toluene	20	0.24		mg/Kg	5	6/15/2021 7:28:57 PM	60591
Ethylbenzene	17	0.24		mg/Kg	5	6/15/2021 7:28:57 PM	60591
Xylenes, Total	36	0.49		mg/Kg	5	6/15/2021 7:28:57 PM	60591
Surr: 4-Bromofluorobenzene	172	70-130	S	%Rec	5	6/15/2021 7:28:57 PM	60591

Lab ID: 2106711-002 **Collection Date:** 6/10/2021 8:40:00 AM
Client Sample ID: TP2-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	1400	60		mg/Kg	20	6/16/2021 7:08:27 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/15/2021 5:17:40 PM	60612
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/15/2021 5:17:40 PM	60612
Surr: DNOP	76.1	70-130		%Rec	1	6/15/2021 5:17:40 PM	60612
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2021 8:39:41 PM	60591
Surr: BFB	107	70-130		%Rec	1	6/15/2021 8:39:41 PM	60591
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/15/2021 8:39:41 PM	60591
Toluene	ND	0.049		mg/Kg	1	6/15/2021 8:39:41 PM	60591
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2021 8:39:41 PM	60591
Xylenes, Total	ND	0.098		mg/Kg	1	6/15/2021 8:39:41 PM	60591
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/15/2021 8:39:41 PM	60591

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

Qualifiers:

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

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106711
Project: Hornbaker BA Battery

Lab ID: 2106711-003 **Collection Date:** 6/10/2021 8:50:00 AM
Client Sample ID: TP2-5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	570	60		mg/Kg	20	6/16/2021 7:20:52 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	48	9.7		mg/Kg	1	6/23/2021 5:38:52 PM	60612
Motor Oil Range Organics (MRO)	49	48		mg/Kg	1	6/23/2021 5:38:52 PM	60612
Surr: DNOP	112	70-130		%Rec	1	6/23/2021 5:38:52 PM	60612
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/15/2021 9:03:09 PM	60591
Surr: BFB	114	70-130		%Rec	1	6/15/2021 9:03:09 PM	60591
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/15/2021 9:03:09 PM	60591
Toluene	ND	0.050		mg/Kg	1	6/15/2021 9:03:09 PM	60591
Ethylbenzene	ND	0.050		mg/Kg	1	6/15/2021 9:03:09 PM	60591
Xylenes, Total	ND	0.10		mg/Kg	1	6/15/2021 9:03:09 PM	60591
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/15/2021 9:03:09 PM	60591

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

Qualifiers:

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

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106711
Project: Hornbaker BA Battery

Lab ID: 2106711-004 **Collection Date:** 6/10/2021 9:00:00 AM
Client Sample ID: TP3-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	1500	60		mg/Kg	20	6/16/2021 7:33:16 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	200	10		mg/Kg	1	6/23/2021 3:51:04 PM	60612
Motor Oil Range Organics (MRO)	430	50		mg/Kg	1	6/23/2021 3:51:04 PM	60612
Surr: DNOP	118	70-130		%Rec	1	6/23/2021 3:51:04 PM	60612
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	6/15/2021 9:26:41 PM	60591
Surr: BFB	103	70-130		%Rec	5	6/15/2021 9:26:41 PM	60591
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	6/15/2021 9:26:41 PM	60591
Toluene	ND	0.25		mg/Kg	5	6/15/2021 9:26:41 PM	60591
Ethylbenzene	ND	0.25		mg/Kg	5	6/15/2021 9:26:41 PM	60591
Xylenes, Total	ND	0.50		mg/Kg	5	6/15/2021 9:26:41 PM	60591
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	5	6/15/2021 9:26:41 PM	60591

Lab ID: 2106711-005 **Collection Date:** 6/10/2021 9:10:00 AM
Client Sample ID: TP3-5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	980	60		mg/Kg	20	6/16/2021 7:45:41 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	100	9.7		mg/Kg	1	6/21/2021 4:55:00 PM	60784
Motor Oil Range Organics (MRO)	180	49		mg/Kg	1	6/21/2021 4:55:00 PM	60784
Surr: DNOP	96.4	70-130		%Rec	1	6/21/2021 4:55:00 PM	60784
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	6/15/2021 9:50:07 PM	60591
Surr: BFB	105	70-130		%Rec	5	6/15/2021 9:50:07 PM	60591
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	6/15/2021 9:50:07 PM	60591
Toluene	ND	0.25		mg/Kg	5	6/15/2021 9:50:07 PM	60591
Ethylbenzene	ND	0.25		mg/Kg	5	6/15/2021 9:50:07 PM	60591
Xylenes, Total	ND	0.50		mg/Kg	5	6/15/2021 9:50:07 PM	60591
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	5	6/15/2021 9:50:07 PM	60591

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

Qualifiers:

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

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106711
Project: Hornbaker BA Battery

Lab ID: 2106711-006 **Collection Date:** 6/10/2021 9:20:00 AM
Client Sample ID: TP4-S **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/16/2021 7:58:06 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/21/2021 4:30:25 PM	60784
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/21/2021 4:30:25 PM	60784
Surr: DNOP	73.1	70-130		%Rec	1	6/21/2021 4:30:25 PM	60784
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2021 11:23:53 PM	60591
Surr: BFB	105	70-130		%Rec	1	6/15/2021 11:23:53 PM	60591
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/15/2021 11:23:53 PM	60591
Toluene	ND	0.049		mg/Kg	1	6/15/2021 11:23:53 PM	60591
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2021 11:23:53 PM	60591
Xylenes, Total	ND	0.098		mg/Kg	1	6/15/2021 11:23:53 PM	60591
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	6/15/2021 11:23:53 PM	60591

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

Qualifiers:

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

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106711
Project: Hornbaker BA Battery

Lab ID: 2106711-007 **Collection Date:** 6/10/2021 9:25:00 AM
Client Sample ID: TP4-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	130	60		mg/Kg	20	6/16/2021 8:10:31 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/15/2021 3:49:38 PM	60612
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2021 3:49:38 PM	60612
Surr: DNOP	82.0	70-130		%Rec	1	6/15/2021 3:49:38 PM	60612
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/15/2021 11:47:34 PM	60591
Surr: BFB	104	70-130		%Rec	1	6/15/2021 11:47:34 PM	60591
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/15/2021 11:47:34 PM	60591
Toluene	ND	0.049		mg/Kg	1	6/15/2021 11:47:34 PM	60591
Ethylbenzene	ND	0.049		mg/Kg	1	6/15/2021 11:47:34 PM	60591
Xylenes, Total	ND	0.098		mg/Kg	1	6/15/2021 11:47:34 PM	60591
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	6/15/2021 11:47:34 PM	60591

Lab ID: 2106711-008 **Collection Date:** 6/10/2021 9:30:00 AM
Client Sample ID: TP5-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	3400	150		mg/Kg	50	6/17/2021 5:22:37 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	6/15/2021 4:02:15 PM	60612
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/15/2021 4:02:15 PM	60612
Surr: DNOP	85.6	70-130		%Rec	1	6/15/2021 4:02:15 PM	60612
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 12:10:54 AM	60591
Surr: BFB	106	70-130		%Rec	1	6/16/2021 12:10:54 AM	60591
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/16/2021 12:10:54 AM	60591
Toluene	ND	0.049		mg/Kg	1	6/16/2021 12:10:54 AM	60591
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 12:10:54 AM	60591
Xylenes, Total	ND	0.098		mg/Kg	1	6/16/2021 12:10:54 AM	60591
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	6/16/2021 12:10:54 AM	60591

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

Qualifiers:

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

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106711
Project: Hornbaker BA Battery

Lab ID: 2106711-009 **Collection Date:** 6/10/2021 9:40:00 AM
Client Sample ID: TP5-5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	2100	150		mg/Kg	50	6/17/2021 5:35:02 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	6/15/2021 4:14:54 PM	60612
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/15/2021 4:14:54 PM	60612
Surr: DNOP	80.2	70-130		%Rec	1	6/15/2021 4:14:54 PM	60612
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 12:34:17 AM	60591
Surr: BFB	106	70-130		%Rec	1	6/16/2021 12:34:17 AM	60591
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/16/2021 12:34:17 AM	60591
Toluene	ND	0.049		mg/Kg	1	6/16/2021 12:34:17 AM	60591
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 12:34:17 AM	60591
Xylenes, Total	ND	0.099		mg/Kg	1	6/16/2021 12:34:17 AM	60591
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	6/16/2021 12:34:17 AM	60591

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

Qualifiers:

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

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106711
Project: Hornbaker BA Battery

Lab ID: 2106711-010 **Collection Date:** 6/10/2021 9:45:00 AM
Client Sample ID: TP6-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	7200	300		mg/Kg	100	6/17/2021 5:47:26 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/15/2021 4:27:34 PM	60612
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/15/2021 4:27:34 PM	60612
Surr: DNOP	78.8	70-130		%Rec	1	6/15/2021 4:27:34 PM	60612
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 12:57:46 AM	60591
Surr: BFB	106	70-130		%Rec	1	6/16/2021 12:57:46 AM	60591
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/16/2021 12:57:46 AM	60591
Toluene	ND	0.049		mg/Kg	1	6/16/2021 12:57:46 AM	60591
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 12:57:46 AM	60591
Xylenes, Total	ND	0.099		mg/Kg	1	6/16/2021 12:57:46 AM	60591
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	6/16/2021 12:57:46 AM	60591

Lab ID: 2106711-011 **Collection Date:** 6/10/2021 9:55:00 AM
Client Sample ID: TP6-5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	4000	150		mg/Kg	50	6/17/2021 5:59:50 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	6/15/2021 4:40:12 PM	60612
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/15/2021 4:40:12 PM	60612
Surr: DNOP	83.5	70-130		%Rec	1	6/15/2021 4:40:12 PM	60612
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 1:21:22 AM	60591
Surr: BFB	104	70-130		%Rec	1	6/16/2021 1:21:22 AM	60591
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/16/2021 1:21:22 AM	60591
Toluene	ND	0.049		mg/Kg	1	6/16/2021 1:21:22 AM	60591
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 1:21:22 AM	60591
Xylenes, Total	ND	0.098		mg/Kg	1	6/16/2021 1:21:22 AM	60591
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	6/16/2021 1:21:22 AM	60591

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

Qualifiers:

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

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106711
Project: Hornbaker BA Battery

Lab ID: 2106711-012 **Collection Date:** 6/10/2021 10:00:00 AM
Client Sample ID: TP7-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	1100	60		mg/Kg	20	6/16/2021 9:37:21 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/15/2021 4:52:36 PM	60612
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/15/2021 4:52:36 PM	60612
Surr: DNOP	80.2	70-130		%Rec	1	6/15/2021 4:52:36 PM	60612
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 1:44:49 AM	60591
Surr: BFB	104	70-130		%Rec	1	6/16/2021 1:44:49 AM	60591
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/16/2021 1:44:49 AM	60591
Toluene	ND	0.049		mg/Kg	1	6/16/2021 1:44:49 AM	60591
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 1:44:49 AM	60591
Xylenes, Total	ND	0.098		mg/Kg	1	6/16/2021 1:44:49 AM	60591
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	6/16/2021 1:44:49 AM	60591

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

Qualifiers:

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

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106711
Project: Hornbaker BA Battery

Lab ID: 2106711-013 **Collection Date:** 6/10/2021 10:05:00 AM
Client Sample ID: TP7-5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	280	60		mg/Kg	20	6/16/2021 9:49:46 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/15/2021 5:30:17 PM	60612
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/15/2021 5:30:17 PM	60612
Surr: DNOP	74.6	70-130		%Rec	1	6/15/2021 5:30:17 PM	60612
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2021 2:08:14 AM	60591
Surr: BFB	105	70-130		%Rec	1	6/16/2021 2:08:14 AM	60591
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/16/2021 2:08:14 AM	60591
Toluene	ND	0.050		mg/Kg	1	6/16/2021 2:08:14 AM	60591
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2021 2:08:14 AM	60591
Xylenes, Total	ND	0.10		mg/Kg	1	6/16/2021 2:08:14 AM	60591
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	6/16/2021 2:08:14 AM	60591

Lab ID: 2106711-014 **Collection Date:** 6/10/2021 10:10:00 AM
Client Sample ID: TP8-S **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/16/2021 10:02:11 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/15/2021 5:42:52 PM	60612
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/15/2021 5:42:52 PM	60612
Surr: DNOP	76.0	70-130		%Rec	1	6/15/2021 5:42:52 PM	60612
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	6/16/2021 2:31:39 AM	60591
Surr: BFB	105	70-130		%Rec	5	6/16/2021 2:31:39 AM	60591
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	6/16/2021 2:31:39 AM	60591
Toluene	ND	0.25		mg/Kg	5	6/16/2021 2:31:39 AM	60591
Ethylbenzene	ND	0.25		mg/Kg	5	6/16/2021 2:31:39 AM	60591
Xylenes, Total	ND	0.50		mg/Kg	5	6/16/2021 2:31:39 AM	60591
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	5	6/16/2021 2:31:39 AM	60591

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

Qualifiers:

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

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106711
Project: Hornbaker BA Battery

Lab ID: 2106711-015 **Collection Date:** 6/10/2021 10:15:00 AM
Client Sample ID: TP8-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	250	60		mg/Kg	20	6/16/2021 10:14:35 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/15/2021 5:55:42 PM	60612
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/15/2021 5:55:42 PM	60612
Surr: DNOP	82.1	70-130		%Rec	1	6/15/2021 5:55:42 PM	60612
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2021 2:55:01 AM	60591
Surr: BFB	106	70-130		%Rec	1	6/16/2021 2:55:01 AM	60591
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/16/2021 2:55:01 AM	60591
Toluene	ND	0.050		mg/Kg	1	6/16/2021 2:55:01 AM	60591
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2021 2:55:01 AM	60591
Xylenes, Total	ND	0.099		mg/Kg	1	6/16/2021 2:55:01 AM	60591
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	6/16/2021 2:55:01 AM	60591

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

Qualifiers:

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

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106711
Project: Hornbaker BA Battery

Lab ID: 2106711-016 **Collection Date:** 6/10/2021 10:20:00 AM
Client Sample ID: TP9-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	3900	150		mg/Kg	50	6/17/2021 6:12:15 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/17/2021 3:51:56 AM	60612
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/17/2021 3:51:56 AM	60612
Surr: DNOP	58.4	70-130	S	%Rec	1	6/17/2021 3:51:56 AM	60612
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 3:41:53 AM	60591
Surr: BFB	105	70-130		%Rec	1	6/16/2021 3:41:53 AM	60591
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/16/2021 3:41:53 AM	60591
Toluene	ND	0.049		mg/Kg	1	6/16/2021 3:41:53 AM	60591
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 3:41:53 AM	60591
Xylenes, Total	ND	0.097		mg/Kg	1	6/16/2021 3:41:53 AM	60591
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	6/16/2021 3:41:53 AM	60591

Lab ID: 2106711-017 **Collection Date:** 6/10/2021 10:25:00 AM
Client Sample ID: TP9-5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	3200	150		mg/Kg	50	6/17/2021 6:24:40 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/15/2021 6:21:02 PM	60612
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/15/2021 6:21:02 PM	60612
Surr: DNOP	79.2	70-130		%Rec	1	6/15/2021 6:21:02 PM	60612
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 4:05:23 AM	60591
Surr: BFB	106	70-130		%Rec	1	6/16/2021 4:05:23 AM	60591
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/16/2021 4:05:23 AM	60591
Toluene	ND	0.049		mg/Kg	1	6/16/2021 4:05:23 AM	60591
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 4:05:23 AM	60591
Xylenes, Total	ND	0.099		mg/Kg	1	6/16/2021 4:05:23 AM	60591
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	6/16/2021 4:05:23 AM	60591

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

Qualifiers:

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

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106711
Project: Hornbaker BA Battery

Lab ID: 2106711-018 **Collection Date:** 6/10/2021 10:40:00 AM
Client Sample ID: TP10-S **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	61		mg/Kg	20	6/16/2021 11:16:37 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/21/2021 5:44:00 PM	60784
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/21/2021 5:44:00 PM	60784
Surr: DNOP	77.6	70-130		%Rec	1	6/21/2021 5:44:00 PM	60784
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	6/16/2021 4:28:49 AM	60591
Surr: BFB	107	70-130		%Rec	5	6/16/2021 4:28:49 AM	60591
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	6/16/2021 4:28:49 AM	60591
Toluene	ND	0.25		mg/Kg	5	6/16/2021 4:28:49 AM	60591
Ethylbenzene	ND	0.25		mg/Kg	5	6/16/2021 4:28:49 AM	60591
Xylenes, Total	ND	0.50		mg/Kg	5	6/16/2021 4:28:49 AM	60591
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	5	6/16/2021 4:28:49 AM	60591

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

Qualifiers:

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

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106711
Project: Hornbaker BA Battery

Lab ID: 2106711-019 **Collection Date:** 6/10/2021 10:45:00 AM
Client Sample ID: TP10-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	320	60		mg/Kg	20	6/16/2021 11:29:02 PM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/15/2021 6:46:11 PM	60612
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2021 6:46:11 PM	60612
Surr: DNOP	89.3	70-130		%Rec	1	6/15/2021 6:46:11 PM	60612
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 4:52:15 AM	60591
Surr: BFB	106	70-130		%Rec	1	6/16/2021 4:52:15 AM	60591
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/16/2021 4:52:15 AM	60591
Toluene	ND	0.049		mg/Kg	1	6/16/2021 4:52:15 AM	60591
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 4:52:15 AM	60591
Xylenes, Total	ND	0.099		mg/Kg	1	6/16/2021 4:52:15 AM	60591
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	6/16/2021 4:52:15 AM	60591

Lab ID: 2106711-020 **Collection Date:** 6/10/2021 11:00:00 AM
Client Sample ID: TP11-1 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	1900	60		mg/Kg	20	6/17/2021 12:06:15 AM	60648
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/15/2021 5:15:28 PM	60613
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2021 5:15:28 PM	60613
Surr: DNOP	98.7	70-130		%Rec	1	6/15/2021 5:15:28 PM	60613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 3:23:29 PM	60593
Surr: BFB	110	70-130		%Rec	1	6/16/2021 3:23:29 PM	60593
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/16/2021 3:23:29 PM	60593
Toluene	ND	0.049		mg/Kg	1	6/16/2021 3:23:29 PM	60593
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 3:23:29 PM	60593
Xylenes, Total	ND	0.098		mg/Kg	1	6/16/2021 3:23:29 PM	60593
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/16/2021 3:23:29 PM	60593

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

Qualifiers:

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

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106711
Project: Hornbaker BA Battery

Lab ID: 2106711-021 **Collection Date:** 6/10/2021 11:15:00 AM
Client Sample ID: TP12-S **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/16/2021 9:37:42 AM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/21/2021 6:08:32 PM	60784
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/21/2021 6:08:32 PM	60784
Surr: DNOP	76.1	70-130		%Rec	1	6/21/2021 6:08:32 PM	60784
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2021 3:47:25 PM	60593
Surr: BFB	111	70-130		%Rec	1	6/16/2021 3:47:25 PM	60593
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/16/2021 3:47:25 PM	60593
Toluene	ND	0.050		mg/Kg	1	6/16/2021 3:47:25 PM	60593
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2021 3:47:25 PM	60593
Xylenes, Total	ND	0.099		mg/Kg	1	6/16/2021 3:47:25 PM	60593
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/16/2021 3:47:25 PM	60593

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

Qualifiers:

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

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106711
Project: Hornbaker BA Battery

Lab ID: 2106711-022 **Collection Date:** 6/10/2021 11:20:00 AM
Client Sample ID: TP12-1 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	90	61		mg/Kg	20	6/16/2021 10:14:54 AM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/15/2021 6:53:43 PM	60613
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/15/2021 6:53:43 PM	60613
Surr: DNOP	103	70-130		%Rec	1	6/15/2021 6:53:43 PM	60613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 4:11:20 PM	60593
Surr: BFB	111	70-130		%Rec	1	6/16/2021 4:11:20 PM	60593
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/16/2021 4:11:20 PM	60593
Toluene	ND	0.049		mg/Kg	1	6/16/2021 4:11:20 PM	60593
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 4:11:20 PM	60593
Xylenes, Total	ND	0.099		mg/Kg	1	6/16/2021 4:11:20 PM	60593
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/16/2021 4:11:20 PM	60593

Lab ID: 2106711-023 **Collection Date:** 6/10/2021 12:25:00 PM
Client Sample ID: TP13-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	4600	150		mg/Kg	50	6/18/2021 2:09:48 PM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/15/2021 7:18:25 PM	60613
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2021 7:18:25 PM	60613
Surr: DNOP	96.8	70-130		%Rec	1	6/15/2021 7:18:25 PM	60613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 4:35:12 PM	60593
Surr: BFB	110	70-130		%Rec	1	6/16/2021 4:35:12 PM	60593
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/16/2021 4:35:12 PM	60593
Toluene	ND	0.049		mg/Kg	1	6/16/2021 4:35:12 PM	60593
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 4:35:12 PM	60593
Xylenes, Total	ND	0.098		mg/Kg	1	6/16/2021 4:35:12 PM	60593
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/16/2021 4:35:12 PM	60593

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

Qualifiers:

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

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106711
Project: Hornbaker BA Battery

Lab ID: 2106711-024 **Collection Date:** 6/10/2021 12:30:00 PM
Client Sample ID: TP14-S **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/16/2021 2:47:53 PM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/17/2021 5:05:07 AM	60613
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/17/2021 5:05:07 AM	60613
Surr: DNOP	75.6	70-130		%Rec	1	6/17/2021 5:05:07 AM	60613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 4:59:08 PM	60593
Surr: BFB	110	70-130		%Rec	1	6/16/2021 4:59:08 PM	60593
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/16/2021 4:59:08 PM	60593
Toluene	ND	0.049		mg/Kg	1	6/16/2021 4:59:08 PM	60593
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 4:59:08 PM	60593
Xylenes, Total	ND	0.099		mg/Kg	1	6/16/2021 4:59:08 PM	60593
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	6/16/2021 4:59:08 PM	60593

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

Qualifiers:

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

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106711
Project: Hornbaker BA Battery

Lab ID: 2106711-025 **Collection Date:** 6/10/2021 12:35:00 PM
Client Sample ID: TP14-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	310	60		mg/Kg	20	6/16/2021 3:00:18 PM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/15/2021 8:07:43 PM	60613
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2021 8:07:43 PM	60613
Surr: DNOP	93.9	70-130		%Rec	1	6/15/2021 8:07:43 PM	60613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2021 5:23:03 PM	60593
Surr: BFB	110	70-130		%Rec	1	6/16/2021 5:23:03 PM	60593
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/16/2021 5:23:03 PM	60593
Toluene	ND	0.050		mg/Kg	1	6/16/2021 5:23:03 PM	60593
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2021 5:23:03 PM	60593
Xylenes, Total	ND	0.10		mg/Kg	1	6/16/2021 5:23:03 PM	60593
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	6/16/2021 5:23:03 PM	60593

Lab ID: 2106711-026 **Collection Date:** 6/10/2021 12:40:00 PM
Client Sample ID: TP15-1 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	2400	60		mg/Kg	20	6/16/2021 3:12:42 PM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/15/2021 8:32:15 PM	60613
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2021 8:32:15 PM	60613
Surr: DNOP	81.2	70-130		%Rec	1	6/15/2021 8:32:15 PM	60613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 5:46:55 PM	60593
Surr: BFB	111	70-130		%Rec	1	6/16/2021 5:46:55 PM	60593
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/16/2021 5:46:55 PM	60593
Toluene	ND	0.049		mg/Kg	1	6/16/2021 5:46:55 PM	60593
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 5:46:55 PM	60593
Xylenes, Total	ND	0.098		mg/Kg	1	6/16/2021 5:46:55 PM	60593
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/16/2021 5:46:55 PM	60593

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

Qualifiers:

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

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106711
Project: Hornbaker BA Battery

Lab ID: 2106711-027 **Collection Date:** 6/10/2021 12:55:00 PM
Client Sample ID: TP16-S **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/16/2021 3:49:54 PM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/15/2021 8:56:48 PM	60613
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/15/2021 8:56:48 PM	60613
Surr: DNOP	83.3	70-130		%Rec	1	6/15/2021 8:56:48 PM	60613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2021 10:30:20 PM	60593
Surr: BFB	102	70-130		%Rec	1	6/16/2021 10:30:20 PM	60593
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/16/2021 10:30:20 PM	60593
Toluene	ND	0.050		mg/Kg	1	6/16/2021 10:30:20 PM	60593
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2021 10:30:20 PM	60593
Xylenes, Total	ND	0.10		mg/Kg	1	6/16/2021 10:30:20 PM	60593
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	6/16/2021 10:30:20 PM	60593

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

Qualifiers:

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

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106711
Project: Hornbaker BA Battery

Lab ID: 2106711-028 **Collection Date:** 6/10/2021 1:00:00 PM
Client Sample ID: TP16-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	150	60		mg/Kg	20	6/16/2021 4:02:19 PM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/15/2021 9:21:16 PM	60613
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/15/2021 9:21:16 PM	60613
Surr: DNOP	70.7	70-130		%Rec	1	6/15/2021 9:21:16 PM	60613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2021 10:53:46 PM	60593
Surr: BFB	103	70-130		%Rec	1	6/16/2021 10:53:46 PM	60593
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/16/2021 10:53:46 PM	60593
Toluene	ND	0.050		mg/Kg	1	6/16/2021 10:53:46 PM	60593
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2021 10:53:46 PM	60593
Xylenes, Total	ND	0.10		mg/Kg	1	6/16/2021 10:53:46 PM	60593
Surr: 4-Bromofluorobenzene	95.5	70-130		%Rec	1	6/16/2021 10:53:46 PM	60593

Lab ID: 2106711-029 **Collection Date:** 6/10/2021 1:10:00 PM
Client Sample ID: TP17-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	2700	150		mg/Kg	50	6/18/2021 7:25:24 AM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/15/2021 9:45:49 PM	60613
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/15/2021 9:45:49 PM	60613
Surr: DNOP	110	70-130		%Rec	1	6/15/2021 9:45:49 PM	60613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/16/2021 11:17:10 PM	60593
Surr: BFB	102	70-130		%Rec	1	6/16/2021 11:17:10 PM	60593
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/16/2021 11:17:10 PM	60593
Toluene	ND	0.049		mg/Kg	1	6/16/2021 11:17:10 PM	60593
Ethylbenzene	ND	0.049		mg/Kg	1	6/16/2021 11:17:10 PM	60593
Xylenes, Total	ND	0.097		mg/Kg	1	6/16/2021 11:17:10 PM	60593
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	6/16/2021 11:17:10 PM	60593

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

Qualifiers:

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

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106711
Project: Hornbaker BA Battery

Lab ID: 2106711-030 **Collection Date:** 6/10/2021 1:25:00 PM
Client Sample ID: TP18-S **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/16/2021 4:27:09 PM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/15/2021 10:10:18 PM	60613
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/15/2021 10:10:18 PM	60613
Surr: DNOP	76.0	70-130		%Rec	1	6/15/2021 10:10:18 PM	60613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/16/2021 11:40:29 PM	60593
Surr: BFB	103	70-130		%Rec	1	6/16/2021 11:40:29 PM	60593
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/16/2021 11:40:29 PM	60593
Toluene	ND	0.050		mg/Kg	1	6/16/2021 11:40:29 PM	60593
Ethylbenzene	ND	0.050		mg/Kg	1	6/16/2021 11:40:29 PM	60593
Xylenes, Total	ND	0.10		mg/Kg	1	6/16/2021 11:40:29 PM	60593
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	6/16/2021 11:40:29 PM	60593

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

Qualifiers:

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

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106711
Project: Hornbaker BA Battery

Lab ID: 2106711-031 **Collection Date:** 6/10/2021 1:30:00 PM
Client Sample ID: TP18-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	66	60		mg/Kg	20	6/16/2021 4:39:33 PM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/15/2021 10:34:55 PM	60613
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/15/2021 10:34:55 PM	60613
Surr: DNOP	110	70-130		%Rec	1	6/15/2021 10:34:55 PM	60613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/17/2021 12:03:54 AM	60593
Surr: BFB	102	70-130		%Rec	1	6/17/2021 12:03:54 AM	60593
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/17/2021 12:03:54 AM	60593
Toluene	ND	0.048		mg/Kg	1	6/17/2021 12:03:54 AM	60593
Ethylbenzene	ND	0.048		mg/Kg	1	6/17/2021 12:03:54 AM	60593
Xylenes, Total	ND	0.097		mg/Kg	1	6/17/2021 12:03:54 AM	60593
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	6/17/2021 12:03:54 AM	60593

Lab ID: 2106711-032 **Collection Date:** 6/10/2021 1:40:00 PM
Client Sample ID: TP19-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	2100	150		mg/Kg	50	6/18/2021 7:37:48 AM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/15/2021 10:59:23 PM	60613
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/15/2021 10:59:23 PM	60613
Surr: DNOP	122	70-130		%Rec	1	6/15/2021 10:59:23 PM	60613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/17/2021 12:27:20 AM	60593
Surr: BFB	103	70-130		%Rec	1	6/17/2021 12:27:20 AM	60593
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/17/2021 12:27:20 AM	60593
Toluene	ND	0.049		mg/Kg	1	6/17/2021 12:27:20 AM	60593
Ethylbenzene	ND	0.049		mg/Kg	1	6/17/2021 12:27:20 AM	60593
Xylenes, Total	ND	0.098		mg/Kg	1	6/17/2021 12:27:20 AM	60593
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	6/17/2021 12:27:20 AM	60593

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

Qualifiers:

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

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106711
Project: Hornbaker BA Battery

Lab ID: 2106711-033 **Collection Date:** 6/10/2021 1:45:00 PM
Client Sample ID: TP19-5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	870	61		mg/Kg	20	6/16/2021 5:04:23 PM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/15/2021 11:23:49 PM	60613
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/15/2021 11:23:49 PM	60613
Surr: DNOP	95.6	70-130		%Rec	1	6/15/2021 11:23:49 PM	60613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/17/2021 12:50:39 AM	60593
Surr: BFB	103	70-130		%Rec	1	6/17/2021 12:50:39 AM	60593
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/17/2021 12:50:39 AM	60593
Toluene	ND	0.049		mg/Kg	1	6/17/2021 12:50:39 AM	60593
Ethylbenzene	ND	0.049		mg/Kg	1	6/17/2021 12:50:39 AM	60593
Xylenes, Total	ND	0.097		mg/Kg	1	6/17/2021 12:50:39 AM	60593
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	6/17/2021 12:50:39 AM	60593

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

Qualifiers:

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

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106711
Project: Hornbaker BA Battery

Lab ID: 2106711-034 **Collection Date:** 6/10/2021 1:55:00 PM
Client Sample ID: TP20-S **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	59		mg/Kg	20	6/16/2021 5:16:48 PM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/17/2021 5:29:12 AM	60613
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/17/2021 5:29:12 AM	60613
Surr: DNOP	74.5	70-130		%Rec	1	6/17/2021 5:29:12 AM	60613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/17/2021 1:14:06 AM	60593
Surr: BFB	103	70-130		%Rec	1	6/17/2021 1:14:06 AM	60593
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/17/2021 1:14:06 AM	60593
Toluene	ND	0.049		mg/Kg	1	6/17/2021 1:14:06 AM	60593
Ethylbenzene	ND	0.049		mg/Kg	1	6/17/2021 1:14:06 AM	60593
Xylenes, Total	ND	0.098		mg/Kg	1	6/17/2021 1:14:06 AM	60593
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	6/17/2021 1:14:06 AM	60593

Lab ID: 2106711-035 **Collection Date:** 6/10/2021 2:00:00 PM
Client Sample ID: TP20-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	310	60		mg/Kg	20	6/16/2021 5:29:13 PM	60667
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/17/2021 5:53:20 AM	60613
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/17/2021 5:53:20 AM	60613
Surr: DNOP	93.6	70-130		%Rec	1	6/17/2021 5:53:20 AM	60613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/17/2021 1:37:28 AM	60593
Surr: BFB	103	70-130		%Rec	1	6/17/2021 1:37:28 AM	60593
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/17/2021 1:37:28 AM	60593
Toluene	ND	0.050		mg/Kg	1	6/17/2021 1:37:28 AM	60593
Ethylbenzene	ND	0.050		mg/Kg	1	6/17/2021 1:37:28 AM	60593
Xylenes, Total	ND	0.099		mg/Kg	1	6/17/2021 1:37:28 AM	60593
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	6/17/2021 1:37:28 AM	60593

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

Qualifiers:

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

Analytical Report
Lab Order: **2106711**
Date Reported: **6/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	GHD	**Lab Order:**	2106711
Project:	Hornbaker BA Battery		

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2106711**

28-Jun-21

Client: GHD

Project: Hornbaker BA Battery

Sample ID: **MB-60667**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **60667**	RunNo: **79104**							
Prep Date: **6/16/2021**	Analysis Date: **6/16/2021**	SeqNo: **2777576**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-60667**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **60667**	RunNo: **79104**							
Prep Date: **6/16/2021**	Analysis Date: **6/16/2021**	SeqNo: **2777578**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.7	90	110			

Sample ID: **MB-60648**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **60648**	RunNo: **79104**							
Prep Date: **6/15/2021**	Analysis Date: **6/16/2021**	SeqNo: **2777638**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-60648**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **60648**	RunNo: **79104**							
Prep Date: **6/15/2021**	Analysis Date: **6/16/2021**	SeqNo: **2777639**	Units: **mg/Kg**						
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.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106711**
28-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: **2106711-020AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **TP11-1** Batch ID: **60613** RunNo: **79118**
Prep Date: **6/14/2021** Analysis Date: **6/15/2021** SeqNo: **2777058** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.7	48.31	0	96.0	15	184			
Surr: DNOP	4.7		4.831		98.2	70	130			

Sample ID: **2106711-020AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **TP11-1** Batch ID: **60613** RunNo: **79118**
Prep Date: **6/14/2021** Analysis Date: **6/15/2021** SeqNo: **2777059** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.9	49.41	0	97.8	15	184	4.03	23.9	
Surr: DNOP	4.9		4.941		99.8	70	130	0	0	

Sample ID: **LCS-60613** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **60613** RunNo: **79118**
Prep Date: **6/14/2021** Analysis Date: **6/15/2021** SeqNo: **2777078** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	68.9	141			
Surr: DNOP	5.5		5.000		109	70	130			

Sample ID: **MB-60613** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **60613** RunNo: **79118**
Prep Date: **6/14/2021** Analysis Date: **6/15/2021** SeqNo: **2777079** 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		101	70	130			

Sample ID: **MB-60612** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **60612** RunNo: **79081**
Prep Date: **6/14/2021** Analysis Date: **6/15/2021** SeqNo: **2777096** 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	11		10.00		109	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106711**
28-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: **LCS-60612**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **60612**	RunNo: **79081**							
Prep Date: **6/14/2021**	Analysis Date: **6/15/2021**	SeqNo: **2777097**	Units: **mg/Kg**						
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	141			
Surr: DNOP	4.2		5.000		85.0	70	130			

Sample ID: **MB-60764**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **60764**	RunNo: **79239**							
Prep Date: **6/21/2021**	Analysis Date: **6/22/2021**	SeqNo: **2783029**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.2		10.00		91.7	70	130			

Sample ID: **LCS-60764**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **60764**	RunNo: **79239**							
Prep Date: **6/21/2021**	Analysis Date: **6/22/2021**	SeqNo: **2783030**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		97.5	70	130			

Sample ID: **MB-60784**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **60784**	RunNo: **79243**							
Prep Date: **6/21/2021**	Analysis Date: **6/21/2021**	SeqNo: **2783734**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.3	70	130			

Sample ID: **LCS-60784**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **60784**	RunNo: **79243**							
Prep Date: **6/21/2021**	Analysis Date: **6/21/2021**	SeqNo: **2783735**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.8	68.9	141			
Surr: DNOP	4.5		5.000		89.1	70	130			

Sample ID: **2106711-006AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **TP4-S**	Batch ID: **60784**	RunNo: **79243**							
Prep Date: **6/21/2021**	Analysis Date: **6/21/2021**	SeqNo: **2783736**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	9.7	48.31	0	83.5	15	184			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2106711**

28-Jun-21

Client: GHD

Project: Hornbaker BA Battery

Sample ID: **2106711-006AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **TP4-S** Batch ID: **60784** RunNo: **79243**
Prep Date: **6/21/2021** Analysis Date: **6/21/2021** SeqNo: **2783736** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.1		4.831		64.1	70	130			S

Sample ID: **2106711-006AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **TP4-S** Batch ID: **60784** RunNo: **79243**
Prep Date: **6/21/2021** Analysis Date: **6/21/2021** SeqNo: **2783737** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	9.7	48.69	0	79.4	15	184	4.21	23.9	
Surr: DNOP	2.9		4.869		59.7	70	130	0	0	S

Sample ID: **MB-60765** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **60765** RunNo: **79239**
Prep Date: **6/21/2021** Analysis Date: **6/23/2021** SeqNo: **2784807** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.3		10.00		73.0	70	130			

Sample ID: **LCS-60765** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **60765** RunNo: **79239**
Prep Date: **6/21/2021** Analysis Date: **6/23/2021** SeqNo: **2784808** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7		5.000		74.2	70	130			

Sample ID: **MB-60870** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **60870** RunNo: **79239**
Prep Date: **6/23/2021** Analysis Date: **6/24/2021** SeqNo: **2789223** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		102	70	130			

Sample ID: **LCS-60870** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **60870** RunNo: **79239**
Prep Date: **6/23/2021** Analysis Date: **6/24/2021** SeqNo: **2789224** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		106	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106711**
28-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: **mb-60591**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **60591**	RunNo: **79078**
Prep Date: **6/12/2021**	Analysis Date: **6/15/2021**	SeqNo: **2775966** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		105	70	130			

Sample ID: **lcs-60591**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **60591**	RunNo: **79078**
Prep Date: **6/12/2021**	Analysis Date: **6/15/2021**	SeqNo: **2775967** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	78.6	131			
Surr: BFB	1200		1000		122	70	130			

Sample ID: **mb-60593**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **60593**	RunNo: **79119**
Prep Date: **6/12/2021**	Analysis Date: **6/16/2021**	SeqNo: **2777465** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		108	70	130			

Sample ID: **lcs-60593**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **60593**	RunNo: **79119**
Prep Date: **6/12/2021**	Analysis Date: **6/16/2021**	SeqNo: **2777466** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	113	78.6	131			
Surr: BFB	1200		1000		122	70	130			

Sample ID: **2106711-020ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **TP11-1**	Batch ID: **60593**	RunNo: **79119**
Prep Date: **6/12/2021**	Analysis Date: **6/16/2021**	SeqNo: **2777468** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.68	0	99.1	61.3	114			
Surr: BFB	1100		987.2		116	70	130			

Sample ID: **2106711-020amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **TP11-1**	Batch ID: **60593**	RunNo: **79119**
Prep Date: **6/12/2021**	Analysis Date: **6/16/2021**	SeqNo: **2777469** Units: **mg/Kg**

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106711**
28-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: **2106711-020amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **TP11-1** Batch ID: **60593** RunNo: **79119**
Prep Date: **6/12/2021** Analysis Date: **6/16/2021** SeqNo: **2777469** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.70	0	101	61.3	114	1.86	20	
Surr: BFB	1100		988.1		116	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106711**
28-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: **mb-60591** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **60591** RunNo: **79078**
Prep Date: **6/12/2021** Analysis Date: **6/15/2021** SeqNo: **2776013** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	70	130			

Sample ID: **LCS-60591** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **60591** RunNo: **79078**
Prep Date: **6/12/2021** Analysis Date: **6/15/2021** SeqNo: **2776014** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.2	80	120			
Toluene	0.98	0.050	1.000	0	97.8	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: **2106711-001ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP1-6** Batch ID: **60591** RunNo: **79078**
Prep Date: **6/12/2021** Analysis Date: **6/15/2021** SeqNo: **2776017** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	6.4	0.12	0.9843	5.246	112	80	120			
Toluene	21	0.25	0.9843	19.68	183	80	120			S
Ethylbenzene	19	0.25	0.9843	16.86	168	80	120			S
Xylenes, Total	41	0.49	2.953	35.98	160	80	120			S
Surr: 4-Bromofluorobenzene	8.6		4.921		174	70	130			S

Sample ID: **2106711-001amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP1-6** Batch ID: **60591** RunNo: **79078**
Prep Date: **6/12/2021** Analysis Date: **6/15/2021** SeqNo: **2776018** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	6.1	0.12	0.9852	5.246	84.7	80	120	4.34	20	
Toluene	21	0.25	0.9852	19.68	99.5	80	120	3.90	20	
Ethylbenzene	18	0.25	0.9852	16.86	105	80	120	3.37	20	
Xylenes, Total	40	0.49	2.956	35.98	126	80	120	2.45	20	S
Surr: 4-Bromofluorobenzene	8.5		4.926		173	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	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106711**
28-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: **mb-60593** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **60593** RunNo: **79119**
Prep Date: **6/12/2021** Analysis Date: **6/16/2021** SeqNo: **2777498** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.4	70	130			

Sample ID: **LCS-60593** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **60593** RunNo: **79119**
Prep Date: **6/12/2021** Analysis Date: **6/16/2021** SeqNo: **2777499** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: **2106711-021ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP12-S** Batch ID: **60593** RunNo: **79119**
Prep Date: **6/12/2021** Analysis Date: **6/16/2021** SeqNo: **2777502** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	0.9911	0	99.8	80	120			
Toluene	1.0	0.050	0.9911	0	104	80	120			
Ethylbenzene	1.0	0.050	0.9911	0	104	80	120			
Xylenes, Total	3.1	0.099	2.973	0	105	80	120			
Surr: 4-Bromofluorobenzene	0.97		0.9911		98.1	70	130			

Sample ID: **2106711-021amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP12-S** Batch ID: **60593** RunNo: **79119**
Prep Date: **6/12/2021** Analysis Date: **6/16/2021** SeqNo: **2777503** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.0	80	120	0.883	20	
Toluene	1.0	0.050	1.000	0	104	80	120	0.616	20	
Ethylbenzene	1.1	0.050	1.000	0	105	80	120	1.74	20	
Xylenes, Total	3.2	0.10	3.000	0	105	80	120	1.14	20	
Surr: 4-Bromofluorobenzene	0.97		1.000		97.5	70	130	0	0	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: GHD | Work Order Number: 2106711 | RcptNo: 1

Received By: Isaiah Ortiz 6/12/2021 7:56:00 AM I_Ox

Completed By: Isaiah Ortiz 6/12/2021 9:17:26 AM I_Ox

Reviewed By: JM 06/12/2021

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
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:

IO 6.12.21

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.0	Good	Not Present			

Chain-of-Custody Record

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

Client: GHD

Mailing Address: 324 W. Main St Suite 108 Artesia NM 88210

Phone #: (505) 377-4218

email or Fax#: Becky.Haskell@GHD.com

QA/QC Package: Chase_Settle@eogresources.com Tom.Larson@GHD.com
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

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

Project Name: Hawkeye BA Battery

Project #: 11228980

Project Manager: Becky Haskell
Tom Larson

Sampler: Zach Comino

On Ice: ☑ Yes ☐ No

Sample Temperature: 2.9 +0.1 CF | 3.0 °C

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 2106711	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride Method 300				Air Bubbles (Y or N)
06/02/21	0820	S	TP1-6	Jar		001																
	0840		TP2-2			002																
	0850		TP2-5			003																
	0900		TP3-2			004																
	0910		TP3-5			005																
	0920		TP4-5			006																
	0925		TP4-2			007																
	0930		TP5-2			008																
	0940		TP5-5			009																
	0945		TP6-2			010																
	0955		TP6-5			011																
	1000		TP7-2			012																

Date:	Time:	Relinquished by:	Received by:	Date	Time
06/11/2021	0800	Zach Comino		6/11/21	800
6/11/21	1900		In Cooler	6.12.21	0756

Remarks: Please email zach.comino@GHD.com along with others listed above

Direct Bill to EOG Chase Settle

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

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

Client: GHD

Mailing Address: 324 W. Main St Artesia NM 88210

Phone #: (505) 377-4218

email or Fax#: Becky.Haskell@GHD.com

QA/QC Package: Chase_Settle@eogresources.com Tom.Larsen@GHD.com

☐ Standard ☐ Level 4 (Full Validation)

Accreditation ☐ NELAP ☐ Other

☐ EDD (Type)

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

Project Name: Hondo Tracker RA Battery

Project #: 1122880

Project Manager: Becky Haskell, Tom Larsen

Sampler: Zach Camino

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.9°C +0.1°C/CF 3.0°C

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 2106711	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride Method 300				Air Bubbles (Y or N)
06/10/2021	1005	S	TP7-5	Jar		013																
	1010		TP8-S			014																
	1015		TP8-2			015																
	1020		TP9-2			016																
	1025		TP9-5			017																
	1040		TP10-S			018																
	1045		TP10-2			019																
	1100		TP11-1			020																
	1115		TP12-S			021																
	1120		TP12-1			022																
	1225		TP13-2			023																
	1230		TP14-S			024																

Date	Time	Relinquished by	Received by	Date	Time
06/10/2021	0800	Zach Camino		6/11/21	800
6/11/21	1900			6.12.21	0756

Remarks: Please email zach.camino@GHD.com day with others listed above

Direct Bill to EOG Chase Settle

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

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

Client: GHD

Mailing Address: 3244 Main St Suite 108 Artesia NM 88210

Phone #: (505) 377-4218

email or Fax#: Becky.Haskell@GHD.com

QA/QC Package: Chase.Settle@egresources.com Tom.Larson@GHD.com
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

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

Project Name: Hawkeye BA Battery

Project #: 11228980

Project Manager: Becky Haskell, Tom Larson

Sampler: Zach Camino

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.9 +0.1 (CF) 3.0 °C

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 2106711	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride Method 300				Air Bubbles (Y or N)
06102021	1235	S	TP14-2	Jar		025																
	1240		TP15-1			026																
	1255		TP16-S			027																
	1300		TP16-2			028																
	1310		TP17-2			029																
	1325		TP18-S			030																
	1330		TP18-2			031																
	1340		TP19-2			032																
	1345		TP19-5			033																
	1355		TP20-S			034																
	1400		TP20-2			035																

Date:	Time:	Relinquished by:	Received by:	Date	Time
06/12/2021	0800	Zach Camino		6/11/21	0800
6/11/21	1900			6-12-21	0756

Remarks: Please email zach.camino@GHD.com also with others listed above

Direct Bill to EOG Chase Settle

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 24, 2021

Tom Larson
GHD
6121 Indian School Road, NE #200
Albuquerque, NM 87110
TEL: (505) 884-0672
FAX

RE: Hornbaker BA Battery OrderNo.: 2106816

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 12 sample(s) on 6/16/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order: **2106816**
Date Reported: **6/24/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106816
Project: Hornbaker BA Battery

Lab ID: 2106816-001 **Collection Date:** 6/11/2021 9:00:00 AM
Client Sample ID: TP5-8 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	2900	150		mg/Kg	50	6/21/2021 7:44:28 AM	60733
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/19/2021 12:39:13 AM	60694
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/19/2021 12:39:13 AM	60694
Surr: DNOP	97.9	70-130		%Rec	1	6/19/2021 12:39:13 AM	60694
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/19/2021 3:03:00 AM	60684
Surr: BFB	103	70-130		%Rec	1	6/19/2021 3:03:00 AM	60684
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	6/19/2021 3:03:00 AM	60684
Toluene	ND	0.047		mg/Kg	1	6/19/2021 3:03:00 AM	60684
Ethylbenzene	ND	0.047		mg/Kg	1	6/19/2021 3:03:00 AM	60684
Xylenes, Total	ND	0.095		mg/Kg	1	6/19/2021 3:03:00 AM	60684
Surr: 4-Bromofluorobenzene	87.2	70-130		%Rec	1	6/19/2021 3:03:00 AM	60684

Lab ID: 2106816-002 **Collection Date:** 6/11/2021 9:20:00 AM
Client Sample ID: TP5-10 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	2200	150		mg/Kg	50	6/21/2021 7:56:53 AM	60733
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/19/2021 1:03:48 AM	60694
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/19/2021 1:03:48 AM	60694
Surr: DNOP	100	70-130		%Rec	1	6/19/2021 1:03:48 AM	60694
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/19/2021 4:03:00 AM	60684
Surr: BFB	101	70-130		%Rec	1	6/19/2021 4:03:00 AM	60684
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	6/19/2021 4:03:00 AM	60684
Toluene	ND	0.047		mg/Kg	1	6/19/2021 4:03:00 AM	60684
Ethylbenzene	ND	0.047		mg/Kg	1	6/19/2021 4:03:00 AM	60684
Xylenes, Total	ND	0.094		mg/Kg	1	6/19/2021 4:03:00 AM	60684
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	6/19/2021 4:03:00 AM	60684

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

Qualifiers:

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

Analytical Report
Lab Order: **2106816**
Date Reported: **6/24/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106816
Project: Hornbaker BA Battery

Lab ID: 2106816-003 **Collection Date:** 6/11/2021 10:05:00 AM
Client Sample ID: TP6-6 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	4900	150		mg/Kg	50	6/21/2021 8:09:16 AM	60736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	6/19/2021 1:28:27 AM	60694
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/19/2021 1:28:27 AM	60694
Surr: DNOP	92.9	70-130		%Rec	1	6/19/2021 1:28:27 AM	60694
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/19/2021 4:23:00 AM	60684
Surr: BFB	103	70-130		%Rec	1	6/19/2021 4:23:00 AM	60684
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	6/19/2021 4:23:00 AM	60684
Toluene	ND	0.048		mg/Kg	1	6/19/2021 4:23:00 AM	60684
Ethylbenzene	ND	0.048		mg/Kg	1	6/19/2021 4:23:00 AM	60684
Xylenes, Total	ND	0.097		mg/Kg	1	6/19/2021 4:23:00 AM	60684
Surr: 4-Bromofluorobenzene	87.9	70-130		%Rec	1	6/19/2021 4:23:00 AM	60684

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

Qualifiers:

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

Analytical Report
Lab Order: **2106816**
Date Reported: **6/24/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106816
Project: Hornbaker BA Battery

Lab ID: 2106816-004 **Collection Date:** 6/11/2021 11:00:00 AM
Client Sample ID: TP6-10 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	920	60		mg/Kg	20	6/19/2021 4:38:25 AM	60736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/19/2021 1:52:55 AM	60694
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/19/2021 1:52:55 AM	60694
Surr: DNOP	80.2	70-130		%Rec	1	6/19/2021 1:52:55 AM	60694
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/19/2021 4:43:00 AM	60684
Surr: BFB	102	70-130		%Rec	1	6/19/2021 4:43:00 AM	60684
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	6/19/2021 4:43:00 AM	60684
Toluene	ND	0.048		mg/Kg	1	6/19/2021 4:43:00 AM	60684
Ethylbenzene	ND	0.048		mg/Kg	1	6/19/2021 4:43:00 AM	60684
Xylenes, Total	ND	0.096		mg/Kg	1	6/19/2021 4:43:00 AM	60684
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	6/19/2021 4:43:00 AM	60684

Lab ID: 2106816-005 **Collection Date:** 6/11/2021 11:20:00 AM
Client Sample ID: TP9-6 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	710	60		mg/Kg	20	6/19/2021 4:50:49 AM	60736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/19/2021 2:17:26 AM	60694
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/19/2021 2:17:26 AM	60694
Surr: DNOP	92.6	70-130		%Rec	1	6/19/2021 2:17:26 AM	60694
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/19/2021 5:03:00 AM	60684
Surr: BFB	105	70-130		%Rec	1	6/19/2021 5:03:00 AM	60684
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	6/19/2021 5:03:00 AM	60684
Toluene	ND	0.050		mg/Kg	1	6/19/2021 5:03:00 AM	60684
Ethylbenzene	ND	0.050		mg/Kg	1	6/19/2021 5:03:00 AM	60684
Xylenes, Total	ND	0.10		mg/Kg	1	6/19/2021 5:03:00 AM	60684
Surr: 4-Bromofluorobenzene	87.3	70-130		%Rec	1	6/19/2021 5:03:00 AM	60684

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

Qualifiers:

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

Analytical Report
Lab Order: **2106816**
Date Reported: **6/24/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106816
Project: Hornbaker BA Battery

Lab ID: 2106816-006 **Collection Date:** 6/11/2021 11:50:00 AM
Client Sample ID: TP11-3 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	1400	59		mg/Kg	20	6/19/2021 5:03:13 AM	60736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/19/2021 2:41:51 AM	60694
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/19/2021 2:41:51 AM	60694
Surr: DNOP	92.8	70-130		%Rec	1	6/19/2021 2:41:51 AM	60694
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/19/2021 5:22:00 AM	60684
Surr: BFB	104	70-130		%Rec	1	6/19/2021 5:22:00 AM	60684
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.025		mg/Kg	1	6/19/2021 5:22:00 AM	60684
Toluene	ND	0.049		mg/Kg	1	6/19/2021 5:22:00 AM	60684
Ethylbenzene	ND	0.049		mg/Kg	1	6/19/2021 5:22:00 AM	60684
Xylenes, Total	ND	0.099		mg/Kg	1	6/19/2021 5:22:00 AM	60684
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	1	6/19/2021 5:22:00 AM	60684

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

Qualifiers:

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

Analytical Report
Lab Order: **2106816**
Date Reported: **6/24/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106816
Project: Hornbaker BA Battery

Lab ID: 2106816-007 **Collection Date:** 6/11/2021 12:30:00 PM
Client Sample ID: TP11-5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	610	60		mg/Kg	20	6/19/2021 5:40:27 AM	60736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/19/2021 3:06:32 AM	60694
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/19/2021 3:06:32 AM	60694
Surr: DNOP	82.6	70-130		%Rec	1	6/19/2021 3:06:32 AM	60694
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/19/2021 5:42:00 AM	60684
Surr: BFB	96.6	70-130		%Rec	1	6/19/2021 5:42:00 AM	60684
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	6/19/2021 5:42:00 AM	60684
Toluene	ND	0.049		mg/Kg	1	6/19/2021 5:42:00 AM	60684
Ethylbenzene	ND	0.049		mg/Kg	1	6/19/2021 5:42:00 AM	60684
Xylenes, Total	ND	0.097		mg/Kg	1	6/19/2021 5:42:00 AM	60684
Surr: 4-Bromofluorobenzene	82.3	70-130		%Rec	1	6/19/2021 5:42:00 AM	60684

Lab ID: 2106816-008 **Collection Date:** 6/11/2021 12:50:00 PM
Client Sample ID: TP13-5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	5200	300		mg/Kg	100	6/21/2021 8:21:41 AM	60736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/19/2021 3:31:06 AM	60694
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/19/2021 3:31:06 AM	60694
Surr: DNOP	91.6	70-130		%Rec	1	6/19/2021 3:31:06 AM	60694
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/19/2021 6:02:00 AM	60684
Surr: BFB	98.3	70-130		%Rec	1	6/19/2021 6:02:00 AM	60684
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.023		mg/Kg	1	6/19/2021 6:02:00 AM	60684
Toluene	ND	0.046		mg/Kg	1	6/19/2021 6:02:00 AM	60684
Ethylbenzene	ND	0.046		mg/Kg	1	6/19/2021 6:02:00 AM	60684
Xylenes, Total	ND	0.091		mg/Kg	1	6/19/2021 6:02:00 AM	60684
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	6/19/2021 6:02:00 AM	60684

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

Qualifiers:

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

Analytical Report
Lab Order: **2106816**
Date Reported: **6/24/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106816
Project: Hornbaker BA Battery

Lab ID: 2106816-009 **Collection Date:** 6/11/2021 1:20:00 PM
Client Sample ID: TP15-6 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	3300	150		mg/Kg	50	6/21/2021 8:34:05 AM	60736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	900	19		mg/Kg	2	6/21/2021 9:50:10 PM	60694
Motor Oil Range Organics (MRO)	400	97		mg/Kg	2	6/21/2021 9:50:10 PM	60694
Surr: DNOP	109	70-130		%Rec	2	6/21/2021 9:50:10 PM	60694
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	34	4.8		mg/Kg	1	6/19/2021 6:22:00 AM	60684
Surr: BFB	207	70-130	S	%Rec	1	6/19/2021 6:22:00 AM	60684
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	6/19/2021 6:22:00 AM	60684
Toluene	ND	0.048		mg/Kg	1	6/19/2021 6:22:00 AM	60684
Ethylbenzene	ND	0.048		mg/Kg	1	6/19/2021 6:22:00 AM	60684
Xylenes, Total	0.42	0.096		mg/Kg	1	6/19/2021 6:22:00 AM	60684
Surr: 4-Bromofluorobenzene	136	70-130	S	%Rec	1	6/19/2021 6:22:00 AM	60684

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

Qualifiers:

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

Analytical Report
Lab Order: **2106816**
Date Reported: **6/24/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106816
Project: Hornbaker BA Battery

Lab ID: 2106816-010 **Collection Date:** 6/11/2021 1:30:00 PM
Client Sample ID: TP15-10 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	2200	60		mg/Kg	20	6/19/2021 6:17:40 AM	60736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	800	19		mg/Kg	2	6/21/2021 10:14:34 PM	60694
Motor Oil Range Organics (MRO)	340	95		mg/Kg	2	6/21/2021 10:14:34 PM	60694
Surr: DNOP	107	70-130		%Rec	2	6/21/2021 10:14:34 PM	60694
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	43	4.7		mg/Kg	1	6/19/2021 7:42:00 AM	60684
Surr: BFB	217	70-130	S	%Rec	1	6/19/2021 7:42:00 AM	60684
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	6/19/2021 7:42:00 AM	60684
Toluene	ND	0.047		mg/Kg	1	6/19/2021 7:42:00 AM	60684
Ethylbenzene	0.054	0.047		mg/Kg	1	6/19/2021 7:42:00 AM	60684
Xylenes, Total	0.56	0.095		mg/Kg	1	6/19/2021 7:42:00 AM	60684
Surr: 4-Bromofluorobenzene	146	70-130	S	%Rec	1	6/19/2021 7:42:00 AM	60684

Lab ID: 2106816-011 **Collection Date:** 6/11/2021 1:50:00 PM
Client Sample ID: TP17-4 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	1600	59		mg/Kg	20	6/19/2021 6:30:04 AM	60736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/19/2021 4:44:37 AM	60694
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/19/2021 4:44:37 AM	60694
Surr: DNOP	88.3	70-130		%Rec	1	6/19/2021 4:44:37 AM	60694
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/19/2021 8:02:00 AM	60684
Surr: BFB	111	70-130		%Rec	1	6/19/2021 8:02:00 AM	60684
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	6/19/2021 8:02:00 AM	60684
Toluene	ND	0.047		mg/Kg	1	6/19/2021 8:02:00 AM	60684
Ethylbenzene	ND	0.047		mg/Kg	1	6/19/2021 8:02:00 AM	60684
Xylenes, Total	ND	0.095		mg/Kg	1	6/19/2021 8:02:00 AM	60684
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	6/19/2021 8:02:00 AM	60684

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

Qualifiers:

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

Analytical Report
Lab Order: **2106816**
Date Reported: **6/24/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106816
Project: Hornbaker BA Battery

Lab ID: 2106816-012 **Collection Date:** 6/11/2021 2:05:00 PM
Client Sample ID: TP19-6 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	720	60		mg/Kg	20	6/19/2021 6:42:29 AM	60736
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/19/2021 5:09:08 AM	60694
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/19/2021 5:09:08 AM	60694
Surr: DNOP	93.1	70-130		%Rec	1	6/19/2021 5:09:08 AM	60694
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/19/2021 8:21:00 AM	60684
Surr: BFB	104	70-130		%Rec	1	6/19/2021 8:21:00 AM	60684
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	6/19/2021 8:21:00 AM	60684
Toluene	ND	0.048		mg/Kg	1	6/19/2021 8:21:00 AM	60684
Ethylbenzene	ND	0.048		mg/Kg	1	6/19/2021 8:21:00 AM	60684
Xylenes, Total	ND	0.097		mg/Kg	1	6/19/2021 8:21:00 AM	60684
Surr: 4-Bromofluorobenzene	88.4	70-130		%Rec	1	6/19/2021 8:21:00 AM	60684

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2106816**

24-Jun-21

Client: GHD

Project: Hornbaker BA Battery

Sample ID: **MB-60733**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **60733**	RunNo: **79166**							
Prep Date: **6/18/2021**	Analysis Date: **6/18/2021**	SeqNo: **2780115**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-60733**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **60733**	RunNo: **79166**							
Prep Date: **6/18/2021**	Analysis Date: **6/18/2021**	SeqNo: **2780116**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	99.1	90	110			

Sample ID: **MB-60736**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **60736**	RunNo: **79166**							
Prep Date: **6/18/2021**	Analysis Date: **6/18/2021**	SeqNo: **2780181**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-60736**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **60736**	RunNo: **79166**							
Prep Date: **6/18/2021**	Analysis Date: **6/18/2021**	SeqNo: **2780182**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.8	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2106816**

24-Jun-21

Client: GHD

Project: Hornbaker BA Battery

Sample ID: **LCS-60694** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **60694** RunNo: **79223**
Prep Date: **6/17/2021** Analysis Date: **6/18/2021** SeqNo: **2781759** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.9	68.9	141			
Surr: DNOP	4.6		5.000		91.3	70	130			

Sample ID: **LCS-60743** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **60743** RunNo: **79223**
Prep Date: **6/18/2021** Analysis Date: **6/19/2021** SeqNo: **2781761** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		5.000		102	70	130			

Sample ID: **LCS-60744** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **60744** RunNo: **79223**
Prep Date: **6/18/2021** Analysis Date: **6/20/2021** SeqNo: **2781762** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		92.5	70	130			

Sample ID: **MB-60694** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **60694** RunNo: **79223**
Prep Date: **6/17/2021** Analysis Date: **6/18/2021** SeqNo: **2781763** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.0	70	130			

Sample ID: **MB-60743** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **60743** RunNo: **79223**
Prep Date: **6/18/2021** Analysis Date: **6/19/2021** SeqNo: **2781765** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.5		10.00		95.4	70	130			

Sample ID: **MB-60744** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **60744** RunNo: **79223**
Prep Date: **6/18/2021** Analysis Date: **6/20/2021** SeqNo: **2781766** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.9		10.00		99.3	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2106816**

24-Jun-21

Client: GHD

Project: Hornbaker BA Battery

Sample ID: **LCS-60684**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **60684**	RunNo: **79188**
Prep Date: **6/16/2021**	Analysis Date: **6/19/2021**	SeqNo: **2780413** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	78.6	131			
Surr: BFB	1200		1000		117	70	130			

Sample ID: **MB-60684**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **60684**	RunNo: **79188**
Prep Date: **6/16/2021**	Analysis Date: **6/19/2021**	SeqNo: **2780414** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106816**
24-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: **LCS-60684** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **60684** RunNo: **79188**
Prep Date: **6/16/2021** Analysis Date: **6/19/2021** SeqNo: **2781039** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.0	80	120			
Toluene	0.89	0.050	1.000	0	88.8	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.3	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.3	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		86.8	70	130			

Sample ID: **MB-60684** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **60684** RunNo: **79188**
Prep Date: **6/16/2021** Analysis Date: **6/19/2021** SeqNo: **2781040** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		87.8	70	130			

Sample ID: **2106816-001ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP5-8** Batch ID: **60684** RunNo: **79188**
Prep Date: **6/16/2021** Analysis Date: **6/19/2021** SeqNo: **2781043** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.023	0.9107	0	86.4	80	120			
Toluene	0.79	0.046	0.9107	0	86.7	80	120			
Ethylbenzene	0.81	0.046	0.9107	0	88.8	80	120			
Xylenes, Total	2.4	0.091	2.732	0	87.7	80	120			
Surr: 4-Bromofluorobenzene	0.78		0.9107		85.2	70	130			

Sample ID: **2106816-001amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP5-8** Batch ID: **60684** RunNo: **79188**
Prep Date: **6/16/2021** Analysis Date: **6/19/2021** SeqNo: **2781044** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9794	0	88.6	80	120	9.68	20	
Toluene	0.87	0.049	0.9794	0	88.4	80	120	9.17	20	
Ethylbenzene	0.89	0.049	0.9794	0	90.7	80	120	9.37	20	
Xylenes, Total	2.6	0.098	2.938	0	89.8	80	120	9.67	20	
Surr: 4-Bromofluorobenzene	0.84		0.9794		85.9	70	130	0	0	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: GHD | Work Order Number: 2106816 | RcptNo: 1

Received By: Juan Rojas 6/16/2021 7:35:00 AM

Completed By: Cheyenne Cason 6/16/2021 8:36:36 AM

Reviewed By: JG 6.16.21

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
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: T.C 6.16.21

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	0.7	Good				
2	0.2	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address: 3240 Main St. Suite 108 Artesia NM 88210

Phone #: (505) 377-4218

email or Fax#: Zach.camino@GHD.com
Becky.haskell@GHD.com
Chase_Settle@agresources.com

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

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
~~☐ Standard~~ ☐ Rush 4 days 5 day

Project Name: Hawkeater BA Battery

Project #: 112C8980

Project Manager: Becky Haskell
Tom Larson

Sampler: Zach Camino

On Ice: ~~☐ Yes~~ ☐ No

Sample Temperature: 0.8-0.1=0.7
6.3-0.1=0.2

HEAL No. 2106816

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 Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride Method 300				Air Bubbles (Y or N)
06/12/21	0900	S	TP5-8	Jar		001																
	0920		TP5-10			002																
	1005		TP6-6			003																
	1100		TP6-10			004																
	1120		TP9-6			005																
	1150		TP11-3			006																
	1230		TP11-5			007																
	1250		TP13-5			008																
	1320		TP15-6			009																
	1330		TP15-10			010																
	1350		TP17-4			011																
	1405		TP19-6			012																

Date:	Time:	Relinquished by:	Received by:	Date	Time
				6/15/21	0900
6/15/21	1900		courier	6/16/21	7:35

Remarks: Please email Tom.Larson@GHD.com along with others listed above

Direct Bill to EOG Chase Settle

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 29, 2021

Tom Larson
GHD
6121 Indian School Road, NE #200
Albuquerque, NM 87110
TEL: (505) 884-0672
FAX

RE: Hornbaker BA Battery OrderNo.: 2106910

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 19 sample(s) on 6/17/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order: **2106910**
Date Reported: **6/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106910
Project: Hornbaker BA Battery

Lab ID: 2106910-001 **Collection Date:** 6/15/2021 8:40:00 AM
Client Sample ID: TP3-6 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	750	59		mg/Kg	20	6/20/2021 2:33:37 PM	60753
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	38	8.5		mg/Kg	1	6/25/2021 9:11:49 AM	60742
Motor Oil Range Organics (MRO)	92	42		mg/Kg	1	6/25/2021 9:11:49 AM	60742
Surr: DNOP	97.4	70-130		%Rec	1	6/25/2021 9:11:49 AM	60742
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2021 4:48:00 AM	60719
Surr: BFB	98.6	70-130		%Rec	1	6/20/2021 4:48:00 AM	60719
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	6/20/2021 4:48:00 AM	60719
Toluene	ND	0.049		mg/Kg	1	6/20/2021 4:48:00 AM	60719
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2021 4:48:00 AM	60719
Xylenes, Total	ND	0.098		mg/Kg	1	6/20/2021 4:48:00 AM	60719
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	6/20/2021 4:48:00 AM	60719

Lab ID: 2106910-002 **Collection Date:** 6/15/2021 8:45:00 AM
Client Sample ID: TP3-8 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	750	60		mg/Kg	20	6/20/2021 2:46:02 PM	60753
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	15	9.0		mg/Kg	1	6/20/2021 11:37:57 AM	60742
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/20/2021 11:37:57 AM	60742
Surr: DNOP	107	70-130		%Rec	1	6/20/2021 11:37:57 AM	60742
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/20/2021 5:08:00 AM	60719
Surr: BFB	97.0	70-130		%Rec	1	6/20/2021 5:08:00 AM	60719
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	6/20/2021 5:08:00 AM	60719
Toluene	ND	0.048		mg/Kg	1	6/20/2021 5:08:00 AM	60719
Ethylbenzene	ND	0.048		mg/Kg	1	6/20/2021 5:08:00 AM	60719
Xylenes, Total	ND	0.097		mg/Kg	1	6/20/2021 5:08:00 AM	60719
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	6/20/2021 5:08:00 AM	60719

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

Qualifiers:

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

Analytical Report
Lab Order: **2106910**
Date Reported: **6/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106910
Project: Hornbaker BA Battery

Lab ID: 2106910-003 **Collection Date:** 6/15/2021 9:15:00 AM
Client Sample ID: TP2-6 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	2200	150		mg/Kg	50	6/22/2021 5:21:19 PM	60753
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	14	9.0		mg/Kg	1	6/20/2021 12:26:20 PM	60742
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/20/2021 12:26:20 PM	60742
Surr: DNOP	104	70-130		%Rec	1	6/20/2021 12:26:20 PM	60742
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/20/2021 5:28:00 AM	60719
Surr: BFB	96.8	70-130		%Rec	1	6/20/2021 5:28:00 AM	60719
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	6/20/2021 5:28:00 AM	60719
Toluene	ND	0.050		mg/Kg	1	6/20/2021 5:28:00 AM	60719
Ethylbenzene	ND	0.050		mg/Kg	1	6/20/2021 5:28:00 AM	60719
Xylenes, Total	ND	0.10		mg/Kg	1	6/20/2021 5:28:00 AM	60719
Surr: 4-Bromofluorobenzene	82.4	70-130		%Rec	1	6/20/2021 5:28:00 AM	60719

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

Qualifiers:

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

Analytical Report
Lab Order: **2106910**
Date Reported: **6/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106910
Project: Hornbaker BA Battery

Lab ID: 2106910-004 **Collection Date:** 6/15/2021 9:45:00 AM
Client Sample ID: TP21-S **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/20/2021 3:10:51 PM	60753
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	6/23/2021 5:25:59 PM	60742
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/23/2021 5:25:59 PM	60742
Surr: DNOP	101	70-130		%Rec	1	6/23/2021 5:25:59 PM	60742
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/20/2021 5:47:00 AM	60719
Surr: BFB	107	70-130		%Rec	1	6/20/2021 5:47:00 AM	60719
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	6/20/2021 5:47:00 AM	60719
Toluene	ND	0.050		mg/Kg	1	6/20/2021 5:47:00 AM	60719
Ethylbenzene	ND	0.050		mg/Kg	1	6/20/2021 5:47:00 AM	60719
Xylenes, Total	ND	0.10		mg/Kg	1	6/20/2021 5:47:00 AM	60719
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	6/20/2021 5:47:00 AM	60719

Lab ID: 2106910-005 **Collection Date:** 6/15/2021 9:50:00 AM
Client Sample ID: TP21-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/21/2021 6:42:03 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	6/19/2021 4:12:31 PM	60743
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/19/2021 4:12:31 PM	60743
Surr: DNOP	101	70-130		%Rec	1	6/19/2021 4:12:31 PM	60743
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/20/2021 6:07:00 AM	60719
Surr: BFB	101	70-130		%Rec	1	6/20/2021 6:07:00 AM	60719
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	6/20/2021 6:07:00 AM	60719
Toluene	ND	0.050		mg/Kg	1	6/20/2021 6:07:00 AM	60719
Ethylbenzene	ND	0.050		mg/Kg	1	6/20/2021 6:07:00 AM	60719
Xylenes, Total	ND	0.099		mg/Kg	1	6/20/2021 6:07:00 AM	60719
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	6/20/2021 6:07:00 AM	60719

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

Qualifiers:

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

Analytical Report
Lab Order: **2106910**
Date Reported: **6/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106910
Project: Hornbaker BA Battery

Lab ID: 2106910-006 **Collection Date:** 6/15/2021 10:00:00 AM
Client Sample ID: TP22-S **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/21/2021 7:44:05 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/19/2021 5:26:14 PM	60743
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/19/2021 5:26:14 PM	60743
Surr: DNOP	92.7	70-130		%Rec	1	6/19/2021 5:26:14 PM	60743
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2021 6:27:00 AM	60719
Surr: BFB	99.4	70-130		%Rec	1	6/20/2021 6:27:00 AM	60719
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	6/20/2021 6:27:00 AM	60719
Toluene	ND	0.049		mg/Kg	1	6/20/2021 6:27:00 AM	60719
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2021 6:27:00 AM	60719
Xylenes, Total	ND	0.098		mg/Kg	1	6/20/2021 6:27:00 AM	60719
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	6/20/2021 6:27:00 AM	60719

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

Qualifiers:

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

Analytical Report
Lab Order: **2106910**
Date Reported: **6/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106910
Project: Hornbaker BA Battery

Lab ID: 2106910-007 **Collection Date:** 6/15/2021 10:10:00 AM
Client Sample ID: TP22-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/21/2021 8:21:19 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	45	9.9		mg/Kg	1	6/23/2021 5:59:22 PM	60743
Motor Oil Range Organics (MRO)	150	49		mg/Kg	1	6/23/2021 5:59:22 PM	60743
Surr: DNOP	92.6	70-130		%Rec	1	6/23/2021 5:59:22 PM	60743
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2021 6:47:00 AM	60719
Surr: BFB	102	70-130		%Rec	1	6/20/2021 6:47:00 AM	60719
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	6/20/2021 6:47:00 AM	60719
Toluene	ND	0.049		mg/Kg	1	6/20/2021 6:47:00 AM	60719
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2021 6:47:00 AM	60719
Xylenes, Total	ND	0.099		mg/Kg	1	6/20/2021 6:47:00 AM	60719
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	6/20/2021 6:47:00 AM	60719

Lab ID: 2106910-008 **Collection Date:** 6/15/2021 10:15:00 AM
Client Sample ID: TP23-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	5700	150		mg/Kg	50	6/22/2021 5:33:43 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/19/2021 6:15:24 PM	60743
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/19/2021 6:15:24 PM	60743
Surr: DNOP	99.2	70-130		%Rec	1	6/19/2021 6:15:24 PM	60743
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/20/2021 7:07:00 AM	60719
Surr: BFB	103	70-130		%Rec	1	6/20/2021 7:07:00 AM	60719
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	6/20/2021 7:07:00 AM	60719
Toluene	ND	0.050		mg/Kg	1	6/20/2021 7:07:00 AM	60719
Ethylbenzene	ND	0.050		mg/Kg	1	6/20/2021 7:07:00 AM	60719
Xylenes, Total	ND	0.10		mg/Kg	1	6/20/2021 7:07:00 AM	60719
Surr: 4-Bromofluorobenzene	87.6	70-130		%Rec	1	6/20/2021 7:07:00 AM	60719

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

Qualifiers:

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

Analytical Report
Lab Order: **2106910**
Date Reported: **6/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106910
Project: Hornbaker BA Battery

Lab ID: 2106910-009 **Collection Date:** 6/15/2021 10:25:00 AM
Client Sample ID: TP23-6 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	1700	60		mg/Kg	20	6/21/2021 8:46:07 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	6/19/2021 6:40:08 PM	60743
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/19/2021 6:40:08 PM	60743
Surr: DNOP	92.2	70-130		%Rec	1	6/19/2021 6:40:08 PM	60743
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/20/2021 7:27:00 AM	60719
Surr: BFB	102	70-130		%Rec	1	6/20/2021 7:27:00 AM	60719
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	6/20/2021 7:27:00 AM	60719
Toluene	ND	0.049		mg/Kg	1	6/20/2021 7:27:00 AM	60719
Ethylbenzene	ND	0.049		mg/Kg	1	6/20/2021 7:27:00 AM	60719
Xylenes, Total	ND	0.098		mg/Kg	1	6/20/2021 7:27:00 AM	60719
Surr: 4-Bromofluorobenzene	86.5	70-130		%Rec	1	6/20/2021 7:27:00 AM	60719

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

Qualifiers:

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

Analytical Report
Lab Order: **2106910**
Date Reported: **6/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106910
Project: Hornbaker BA Battery

Lab ID: 2106910-010 **Collection Date:** 6/15/2021 10:35:00 AM
Client Sample ID: TP23-9 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	820	60		mg/Kg	20	6/21/2021 8:58:31 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	6/19/2021 7:04:41 PM	60743
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/19/2021 7:04:41 PM	60743
Surr: DNOP	98.1	70-130		%Rec	1	6/19/2021 7:04:41 PM	60743
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/21/2021 9:15:03 PM	60726
Surr: BFB	96.8	70-130		%Rec	1	6/21/2021 9:15:03 PM	60726
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/21/2021 9:15:03 PM	60726
Toluene	ND	0.046		mg/Kg	1	6/21/2021 9:15:03 PM	60726
Ethylbenzene	ND	0.046		mg/Kg	1	6/21/2021 9:15:03 PM	60726
Xylenes, Total	ND	0.092		mg/Kg	1	6/21/2021 9:15:03 PM	60726
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	6/21/2021 9:15:03 PM	60726

Lab ID: 2106910-011 **Collection Date:** 6/15/2021 10:40:00 AM
Client Sample ID: TP23-10 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	710	61		mg/Kg	20	6/21/2021 9:10:56 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/19/2021 7:29:27 PM	60743
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/19/2021 7:29:27 PM	60743
Surr: DNOP	99.4	70-130		%Rec	1	6/19/2021 7:29:27 PM	60743
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/21/2021 10:25:48 PM	60726
Surr: BFB	94.8	70-130		%Rec	1	6/21/2021 10:25:48 PM	60726
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/21/2021 10:25:48 PM	60726
Toluene	ND	0.046		mg/Kg	1	6/21/2021 10:25:48 PM	60726
Ethylbenzene	ND	0.046		mg/Kg	1	6/21/2021 10:25:48 PM	60726
Xylenes, Total	ND	0.092		mg/Kg	1	6/21/2021 10:25:48 PM	60726
Surr: 4-Bromofluorobenzene	94.7	70-130		%Rec	1	6/21/2021 10:25:48 PM	60726

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

Qualifiers:

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

Analytical Report
Lab Order: **2106910**
Date Reported: **6/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106910
Project: Hornbaker BA Battery

Lab ID: 2106910-012 **Collection Date:** 6/15/2021 11:00:00 AM
Client Sample ID: TP24-S **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	74	60		mg/Kg	20	6/21/2021 9:48:08 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/21/2021 8:11:51 PM	60743
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/21/2021 8:11:51 PM	60743
Surr: DNOP	80.2	70-130		%Rec	1	6/21/2021 8:11:51 PM	60743
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/21/2021 11:36:13 PM	60726
Surr: BFB	96.7	70-130		%Rec	1	6/21/2021 11:36:13 PM	60726
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/21/2021 11:36:13 PM	60726
Toluene	ND	0.048		mg/Kg	1	6/21/2021 11:36:13 PM	60726
Ethylbenzene	ND	0.048		mg/Kg	1	6/21/2021 11:36:13 PM	60726
Xylenes, Total	ND	0.095		mg/Kg	1	6/21/2021 11:36:13 PM	60726
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	6/21/2021 11:36:13 PM	60726

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

Qualifiers:

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

Analytical Report
Lab Order: **2106910**
Date Reported: **6/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106910
Project: Hornbaker BA Battery

Lab ID: 2106910-013 **Collection Date:** 6/15/2021 11:20:00 AM
Client Sample ID: TP24-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/21/2021 10:00:32 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/19/2021 8:18:43 PM	60743
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/19/2021 8:18:43 PM	60743
Surr: DNOP	86.8	70-130		%Rec	1	6/19/2021 8:18:43 PM	60743
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/21/2021 11:59:38 PM	60726
Surr: BFB	95.1	70-130		%Rec	1	6/21/2021 11:59:38 PM	60726
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/21/2021 11:59:38 PM	60726
Toluene	ND	0.050		mg/Kg	1	6/21/2021 11:59:38 PM	60726
Ethylbenzene	ND	0.050		mg/Kg	1	6/21/2021 11:59:38 PM	60726
Xylenes, Total	ND	0.099		mg/Kg	1	6/21/2021 11:59:38 PM	60726
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	6/21/2021 11:59:38 PM	60726

Lab ID: 2106910-014 **Collection Date:** 6/15/2021 11:25:00 AM
Client Sample ID: TP25-S **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/21/2021 10:12:57 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/19/2021 8:43:17 PM	60743
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	6/19/2021 8:43:17 PM	60743
Surr: DNOP	71.0	70-130		%Rec	1	6/19/2021 8:43:17 PM	60743
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/22/2021 12:23:16 AM	60726
Surr: BFB	94.5	70-130		%Rec	1	6/22/2021 12:23:16 AM	60726
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/22/2021 12:23:16 AM	60726
Toluene	ND	0.049		mg/Kg	1	6/22/2021 12:23:16 AM	60726
Ethylbenzene	ND	0.049		mg/Kg	1	6/22/2021 12:23:16 AM	60726
Xylenes, Total	ND	0.098		mg/Kg	1	6/22/2021 12:23:16 AM	60726
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	6/22/2021 12:23:16 AM	60726

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

Qualifiers:

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

Analytical Report
Lab Order: **2106910**
Date Reported: **6/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106910
Project: Hornbaker BA Battery

Lab ID: 2106910-015 **Collection Date:** 6/15/2021 11:30:00 AM
Client Sample ID: TP25-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	6/21/2021 10:25:21 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/19/2021 9:08:00 PM	60743
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/19/2021 9:08:00 PM	60743
Surr: DNOP	77.6	70-130		%Rec	1	6/19/2021 9:08:00 PM	60743
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/22/2021 12:46:47 AM	60726
Surr: BFB	96.5	70-130		%Rec	1	6/22/2021 12:46:47 AM	60726
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/22/2021 12:46:47 AM	60726
Toluene	ND	0.049		mg/Kg	1	6/22/2021 12:46:47 AM	60726
Ethylbenzene	ND	0.049		mg/Kg	1	6/22/2021 12:46:47 AM	60726
Xylenes, Total	ND	0.099		mg/Kg	1	6/22/2021 12:46:47 AM	60726
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	6/22/2021 12:46:47 AM	60726

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

Qualifiers:

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

Analytical Report
Lab Order: **2106910**
Date Reported: **6/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106910
Project: Hornbaker BA Battery

Lab ID: 2106910-016 **Collection Date:** 6/15/2021 12:00:00 PM
Client Sample ID: TP26-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	1500	60		mg/Kg	20	6/21/2021 10:37:45 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	6/19/2021 9:32:35 PM	60743
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/19/2021 9:32:35 PM	60743
Surr: DNOP	86.8	70-130		%Rec	1	6/19/2021 9:32:35 PM	60743
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/22/2021 1:10:21 AM	60726
Surr: BFB	95.3	70-130		%Rec	1	6/22/2021 1:10:21 AM	60726
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/22/2021 1:10:21 AM	60726
Toluene	ND	0.049		mg/Kg	1	6/22/2021 1:10:21 AM	60726
Ethylbenzene	ND	0.049		mg/Kg	1	6/22/2021 1:10:21 AM	60726
Xylenes, Total	ND	0.099		mg/Kg	1	6/22/2021 1:10:21 AM	60726
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	6/22/2021 1:10:21 AM	60726

Lab ID: 2106910-017 **Collection Date:** 6/15/2021 12:05:00 PM
Client Sample ID: TP26-6 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	710	60		mg/Kg	20	6/21/2021 10:50:10 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	6/19/2021 9:57:16 PM	60743
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/19/2021 9:57:16 PM	60743
Surr: DNOP	91.8	70-130		%Rec	1	6/19/2021 9:57:16 PM	60743
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/22/2021 1:33:50 AM	60726
Surr: BFB	92.6	70-130		%Rec	1	6/22/2021 1:33:50 AM	60726
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/22/2021 1:33:50 AM	60726
Toluene	ND	0.049		mg/Kg	1	6/22/2021 1:33:50 AM	60726
Ethylbenzene	ND	0.049		mg/Kg	1	6/22/2021 1:33:50 AM	60726
Xylenes, Total	ND	0.098		mg/Kg	1	6/22/2021 1:33:50 AM	60726
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	6/22/2021 1:33:50 AM	60726

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

Qualifiers:

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

Analytical Report
Lab Order: **2106910**
Date Reported: **6/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106910
Project: Hornbaker BA Battery

Lab ID: 2106910-018 **Collection Date:** 6/15/2021 12:10:00 PM
Client Sample ID: TP27-S **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	76	60		mg/Kg	20	6/21/2021 11:02:35 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	9.9	9.8		mg/Kg	1	6/21/2021 8:36:23 PM	60743
Motor Oil Range Organics (MRO)	65	49		mg/Kg	1	6/21/2021 8:36:23 PM	60743
Surr: DNOP	73.9	70-130		%Rec	1	6/21/2021 8:36:23 PM	60743
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/22/2021 1:57:20 AM	60726
Surr: BFB	93.9	70-130		%Rec	1	6/22/2021 1:57:20 AM	60726
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/22/2021 1:57:20 AM	60726
Toluene	ND	0.049		mg/Kg	1	6/22/2021 1:57:20 AM	60726
Ethylbenzene	ND	0.049		mg/Kg	1	6/22/2021 1:57:20 AM	60726
Xylenes, Total	ND	0.099		mg/Kg	1	6/22/2021 1:57:20 AM	60726
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	6/22/2021 1:57:20 AM	60726

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

Qualifiers:

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

Analytical Report
Lab Order: **2106910**
Date Reported: **6/29/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106910
Project: Hornbaker BA Battery

Lab ID: 2106910-019 **Collection Date:** 6/15/2021 12:15:00 PM
Client Sample ID: TP27-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	120	60		mg/Kg	20	6/21/2021 11:14:59 PM	60771
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	49	9.4		mg/Kg	1	6/21/2021 9:01:01 PM	60743
Motor Oil Range Organics (MRO)	100	47		mg/Kg	1	6/21/2021 9:01:01 PM	60743
Surr: DNOP	90.2	70-130		%Rec	1	6/21/2021 9:01:01 PM	60743
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/22/2021 2:20:54 AM	60726
Surr: BFB	92.0	70-130		%Rec	1	6/22/2021 2:20:54 AM	60726
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/22/2021 2:20:54 AM	60726
Toluene	ND	0.048		mg/Kg	1	6/22/2021 2:20:54 AM	60726
Ethylbenzene	ND	0.048		mg/Kg	1	6/22/2021 2:20:54 AM	60726
Xylenes, Total	ND	0.097		mg/Kg	1	6/22/2021 2:20:54 AM	60726
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	6/22/2021 2:20:54 AM	60726

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2106910**

29-Jun-21

Client: GHD

Project: Hornbaker BA Battery

Sample ID: **MB-60753**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **60753**	RunNo: **79212**							
Prep Date: **6/19/2021**	Analysis Date: **6/20/2021**	SeqNo: **2780840**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-60753**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **60753**	RunNo: **79212**							
Prep Date: **6/19/2021**	Analysis Date: **6/20/2021**	SeqNo: **2780841**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Sample ID: **LCS-60771**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **60771**	RunNo: **79215**							
Prep Date: **6/21/2021**	Analysis Date: **6/21/2021**	SeqNo: **2782462**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.8	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106910**
29-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: **2106910-005AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **TP21-2** Batch ID: **60743** RunNo: **79223**
Prep Date: **6/18/2021** Analysis Date: **6/19/2021** SeqNo: **2781721** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	9.6	48.12	0	103	15	184			
Surr: DNOP	4.8		4.812		100	70	130			

Sample ID: **2106910-005AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **TP21-2** Batch ID: **60743** RunNo: **79223**
Prep Date: **6/18/2021** Analysis Date: **6/19/2021** SeqNo: **2781722** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	8.4	41.91	0	106	15	184	10.1	23.9	
Surr: DNOP	4.3		4.191		102	70	130	0	0	

Sample ID: **LCS-60694** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **60694** RunNo: **79223**
Prep Date: **6/17/2021** Analysis Date: **6/18/2021** SeqNo: **2781759** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		91.3	70	130			

Sample ID: **LCS-60743** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **60743** RunNo: **79223**
Prep Date: **6/18/2021** Analysis Date: **6/19/2021** SeqNo: **2781761** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.3	68.9	141			
Surr: DNOP	5.1		5.000		102	70	130			

Sample ID: **LCS-60744** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **60744** RunNo: **79223**
Prep Date: **6/18/2021** Analysis Date: **6/20/2021** SeqNo: **2781762** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		92.5	70	130			

Sample ID: **MB-60694** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **60694** RunNo: **79223**
Prep Date: **6/17/2021** Analysis Date: **6/18/2021** SeqNo: **2781763** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.2		10.00		92.0	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2106910**

29-Jun-21

Client: GHD

Project: Hornbaker BA Battery

Sample ID: **MB-60743**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **60743**	RunNo: **79223**
Prep Date: **6/18/2021**	Analysis Date: **6/19/2021**	SeqNo: **2781765** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		95.4	70	130			

Sample ID: **MB-60744**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **60744**	RunNo: **79223**
Prep Date: **6/18/2021**	Analysis Date: **6/20/2021**	SeqNo: **2781766** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.9		10.00		99.3	70	130			

Sample ID: **MB-60742**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **60742**	RunNo: **79227**
Prep Date: **6/18/2021**	Analysis Date: **6/20/2021**	SeqNo: **2783470** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		98.7	70	130			

Sample ID: **LCS-60742**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **60742**	RunNo: **79227**
Prep Date: **6/18/2021**	Analysis Date: **6/20/2021**	SeqNo: **2783473** Units: **mg/Kg**

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	141			
Surr: DNOP	5.1		5.000		102	70	130			

Sample ID: **MB-60789**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **60789**	RunNo: **79260**
Prep Date: **6/21/2021**	Analysis Date: **6/22/2021**	SeqNo: **2783603** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		116	70	130			

Sample ID: **MB-60790**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **60790**	RunNo: **79260**
Prep Date: **6/21/2021**	Analysis Date: **6/22/2021**	SeqNo: **2783604** Units: **%Rec**

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2106910**

29-Jun-21

Client: GHD

Project: Hornbaker BA Battery

Sample ID: **MB-60790**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **60790**	RunNo: **79260**
Prep Date: **6/21/2021**	Analysis Date: **6/22/2021**	SeqNo: **2783604** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		109	70	130			

Sample ID: **LCS-60789**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **60789**	RunNo: **79260**
Prep Date: **6/21/2021**	Analysis Date: **6/22/2021**	SeqNo: **2783605** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.6		5.000		111	70	130			

Sample ID: **LCS-60790**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **60790**	RunNo: **79260**
Prep Date: **6/21/2021**	Analysis Date: **6/22/2021**	SeqNo: **2783606** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		105	70	130			

Sample ID: **LCS-60869**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **60869**	RunNo: **79364**
Prep Date: **6/23/2021**	Analysis Date: **6/26/2021**	SeqNo: **2789111** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.0		5.000		119	70	130			

Sample ID: **MB-60869**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **60869**	RunNo: **79364**
Prep Date: **6/23/2021**	Analysis Date: **6/26/2021**	SeqNo: **2789122** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		107	70	130			

Sample ID: **MB-60873**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **60873**	RunNo: **79364**
Prep Date: **6/23/2021**	Analysis Date: **6/26/2021**	SeqNo: **2789298** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.2		10.00		82.0	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106910**
29-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: **LCS-60873** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **60873** RunNo: **79364**
Prep Date: **6/23/2021** Analysis Date: **6/26/2021** SeqNo: **2789299** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.1		5.000		81.0	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2106910**

29-Jun-21

Client: GHD

Project: Hornbaker BA Battery

Sample ID: **LCS-60719**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **60719**	RunNo: **79207**							
Prep Date: **6/17/2021**	Analysis Date: **6/19/2021**	SeqNo: **2780934**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	78.6	131			
Surr: BFB	1100		1000		110	70	130			

Sample ID: **MB-60719**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **60719**	RunNo: **79207**							
Prep Date: **6/17/2021**	Analysis Date: **6/19/2021**	SeqNo: **2780936**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.1	70	130			

Sample ID: **mb-60726**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **60726**	RunNo: **79236**							
Prep Date: **6/17/2021**	Analysis Date: **6/21/2021**	SeqNo: **2782336**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.0	70	130			

Sample ID: **lcs-60726**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **60726**	RunNo: **79236**							
Prep Date: **6/17/2021**	Analysis Date: **6/21/2021**	SeqNo: **2782337**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.9	78.6	131			
Surr: BFB	1100		1000		114	70	130			

Sample ID: **2106910-010ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **TP23-9**	Batch ID: **60726**	RunNo: **79236**							
Prep Date: **6/17/2021**	Analysis Date: **6/21/2021**	SeqNo: **2782339**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.32	0	92.2	61.3	114			
Surr: BFB	1100		972.8		110	70	130			

Sample ID: **2106910-010amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **TP23-9**	Batch ID: **60726**	RunNo: **79236**							
Prep Date: **6/17/2021**	Analysis Date: **6/21/2021**	SeqNo: **2782340**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106910**
29-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: **2106910-010amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **TP23-9** Batch ID: **60726** RunNo: **79236**
Prep Date: **6/17/2021** Analysis Date: **6/21/2021** SeqNo: **2782340** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.63	0	88.1	61.3	114	3.21	20	
Surr: BFB	1100		985.2		109	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106910**
29-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: **LCS-60719**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **60719**	RunNo: **79207**
Prep Date: **6/17/2021**	Analysis Date: **6/19/2021**	SeqNo: **2780964** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.3	80	120			
Toluene	0.88	0.050	1.000	0	87.8	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.0	80	120			
Surr: 4-Bromofluorobenzene	0.83		1.000		82.5	70	130			

Sample ID: **MB-60719**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **60719**	RunNo: **79207**
Prep Date: **6/17/2021**	Analysis Date: **6/19/2021**	SeqNo: **2780965** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.84		1.000		84.2	70	130			

Sample ID: **mb-60726**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **60726**	RunNo: **79236**
Prep Date: **6/17/2021**	Analysis Date: **6/21/2021**	SeqNo: **2782380** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.1	70	130			

Sample ID: **LCS-60726**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **60726**	RunNo: **79236**
Prep Date: **6/17/2021**	Analysis Date: **6/21/2021**	SeqNo: **2782381** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.7	80	120			
Toluene	0.98	0.050	1.000	0	98.3	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.2	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106910**
29-Jun-21

Client: GHD
Project: Hornbaker BA Battery

Sample ID: **2106910-011ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP23-10** Batch ID: **60726** RunNo: **79236**
Prep Date: **6/17/2021** Analysis Date: **6/21/2021** SeqNo: **2782384** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	0.9823	0	90.2	80	120			
Toluene	0.91	0.049	0.9823	0	93.1	80	120			
Ethylbenzene	0.92	0.049	0.9823	0	93.3	80	120			
Xylenes, Total	2.7	0.098	2.947	0	93.1	80	120			
Surr: 4-Bromofluorobenzene	0.95		0.9823		96.8	70	130			

Sample ID: **2106910-011amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP23-10** Batch ID: **60726** RunNo: **79236**
Prep Date: **6/17/2021** Analysis Date: **6/21/2021** SeqNo: **2782385** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	0.9833	0	92.8	80	120	2.89	20	
Toluene	0.94	0.049	0.9833	0	95.3	80	120	2.39	20	
Ethylbenzene	0.95	0.049	0.9833	0	96.4	80	120	3.39	20	
Xylenes, Total	2.8	0.098	2.950	0	96.5	80	120	3.72	20	
Surr: 4-Bromofluorobenzene	0.98		0.9833		99.3	70	130	0	0	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: GHD | Work Order Number: 2106910 | RcptNo: 1

Received By: Juan Rojas 6/17/2021 7:35:00 AM

Completed By: Cheyenne Cason 6/17/2021 9:15:39 AM

Reviewed By: JR 6/17/21

Chain of Custody

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

Log In

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

JO 6-17-21

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

Adjusted?

Checked by:

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good				
2	0.3	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address: 324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

email or Fax#: Becky.Haskell@ghd.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

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

Project Name: Hawkeye BA Battery

Project #: 112288980

Project Manager:
Becky Haskell
Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 2

Cooler Temp(including CF): 2.4-0=2.4
0.3-0=0.3

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2106910	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride Method 300
06/15/21	0840	S	TP3-6	Jar		001	✓	✓									✓
	0845		TP3-8			002											
	0915		TP2-6			003											
	0945		TP21-S			004											
	0950		TP21-2			005											
	1000		TP22-S			006											
	1010		TP22-2			007											
	1015		TP23-2			008											
	1025		TP23-6			009											
	1035		TP23-7			010											
	1040		TP23-10			011											
	1100		TP24-S			012											

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
06/15/21	0800	Zach Comino			6/16/21	900
6/16/21	1900					

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
					6/17/21	7:35

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com: Along with Becky Haskell listed above.
Direct Bill to EOG Chase Settle

2 of 2

Chain-of-Custody Record

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

Client: GHD

Mailing Address: 324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

email or Fax#: Becky.Haskell@ghd.com

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

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: ☒ Standard ☐ Rush 5-Dy

Project Name: Hornbaker BA Battery

Project #: 11228980

Project Manager: Becky Haskell, Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 2

Cooler Temp (including CF): 2.4-0=2.4; 0.3-0=0.3

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2106910	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride Method 300
061521	1120	S	TP24-2	Jar		013	X	X									X
↓	1125	↓	TP25-5	↓		014	↓	↓									↓
	1130		TP25-2			015											
	1200		TP26-2			016											
	1205		TP26-6			017											
	1210		TP27-5			018											
	1215		TP27-2			019											

Date	Time	Relinquished by	Received by	Via	Date	Time
061621	0800	Zach Comino/GHD	[signature]		6/16/21	800
6/16/21	1900	[signature]	[signature]	Courier	6/17/21	7:35

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com: Along with Becky Haskell listed above.
Direct Bill to EOG Chase Settle

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 27, 2021

Tom Larson
GHD Midland
2135 S Loop 250 W
Midland, TX 79703
TEL: (432) 686-0086
FAX

RE: Hornbaker BA Battery OrderNo.: 2107641

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 7/14/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2107641**
Date Reported: **7/27/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP3-10
Project: Hornbaker BA Battery
Collection Date: 7/12/2021 3:05:00 PM
Lab ID: 2107641-001 **Matrix:** SOIL **Received Date:** 7/14/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	610	60		mg/Kg	20	7/20/2021 10:58:18 AM	61410
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/16/2021 5:37:42 PM	61345
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/16/2021 5:37:42 PM	61345
Surr: DNOP	118	70-130		%Rec	1	7/16/2021 5:37:42 PM	61345
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/17/2021 1:47:00 AM	61315
Surr: BFB	109	70-130		%Rec	1	7/17/2021 1:47:00 AM	61315
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	7/17/2021 3:08:00 PM	61315
Toluene	ND	0.047		mg/Kg	1	7/17/2021 3:08:00 PM	61315
Ethylbenzene	ND	0.047		mg/Kg	1	7/17/2021 3:08:00 PM	61315
Xylenes, Total	ND	0.094		mg/Kg	1	7/17/2021 3:08:00 PM	61315
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	7/17/2021 3:08:00 PM	61315

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

Qualifiers:

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

Analytical Report
Lab Order **2107641**
Date Reported: **7/27/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP3-14
Project: Hornbaker BA Battery
Collection Date: 7/12/2021 3:15:00 PM
Lab ID: 2107641-002 **Matrix:** SOIL **Received Date:** 7/14/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	590	60		mg/Kg	20	7/20/2021 11:10:43 AM	61410
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/16/2021 6:01:35 PM	61345
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/16/2021 6:01:35 PM	61345
Surr: DNOP	119	70-130		%Rec	1	7/16/2021 6:01:35 PM	61345
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/17/2021 2:47:00 AM	61315
Surr: BFB	117	70-130		%Rec	1	7/17/2021 2:47:00 AM	61315
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	7/17/2021 4:09:00 PM	61315
Toluene	ND	0.048		mg/Kg	1	7/17/2021 4:09:00 PM	61315
Ethylbenzene	ND	0.048		mg/Kg	1	7/17/2021 4:09:00 PM	61315
Xylenes, Total	ND	0.095		mg/Kg	1	7/17/2021 4:09:00 PM	61315
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	7/17/2021 4:09:00 PM	61315

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2107641**

27-Jul-21

Client: GHD Midland

Project: Hornbaker BA Battery

Sample ID: **MB-61410**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **61410**	RunNo: **79938**							
Prep Date: **7/19/2021**	Analysis Date: **7/20/2021**	SeqNo: **2813087**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-61410**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **61410**	RunNo: **79938**							
Prep Date: **7/19/2021**	Analysis Date: **7/20/2021**	SeqNo: **2813088**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2107641**
27-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **MB-61345**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **61345**	RunNo: **79901**
Prep Date: **7/15/2021**	Analysis Date: **7/16/2021**	SeqNo: **2810838** 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	13		10.00		126	70	130			

Sample ID: **LCS-61345**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **61345**	RunNo: **79901**
Prep Date: **7/15/2021**	Analysis Date: **7/16/2021**	SeqNo: **2810839** Units: **mg/Kg**

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	141			
Surr: DNOP	4.7		5.000		93.3	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2107641**

27-Jul-21

Client: GHD Midland

Project: Hornbaker BA Battery

Sample ID: **lcs-61315**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **61315**	RunNo: **79869**
Prep Date: **7/14/2021**	Analysis Date: **7/16/2021**	SeqNo: **2809671** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.0	78.6	131			
Surr: BFB	1200		1000		124	70	130			

Sample ID: **mb-61315**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **61315**	RunNo: **79869**
Prep Date: **7/14/2021**	Analysis Date: **7/16/2021**	SeqNo: **2809672** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		109	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2107641**

27-Jul-21

Client: GHD Midland

Project: Hornbaker BA Battery

Sample ID: **lcs-61315**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **61315**	RunNo: **79869**
Prep Date: **7/14/2021**	Analysis Date: **7/16/2021**	SeqNo: **2809764** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.4	80	120			
Toluene	0.88	0.050	1.000	0	88.1	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.7	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.5	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	70	130			

Sample ID: **mb-61315**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **61315**	RunNo: **79869**
Prep Date: **7/14/2021**	Analysis Date: **7/16/2021**	SeqNo: **2809765** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		111	70	130			

Sample ID: **2107641-001ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP3-10**	Batch ID: **61315**	RunNo: **79870**
Prep Date: **7/14/2021**	Analysis Date: **7/17/2021**	SeqNo: **2810386** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.024	0.9560	0	83.3	80	120			
Toluene	0.82	0.048	0.9560	0	85.4	80	120			
Ethylbenzene	0.85	0.048	0.9560	0	89.0	80	120			
Xylenes, Total	2.6	0.096	2.868	0	89.6	80	120			
Surr: 4-Bromofluorobenzene	1.1		0.9560		112	70	130			

Sample ID: **2107641-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP3-10**	Batch ID: **61315**	RunNo: **79870**
Prep Date: **7/14/2021**	Analysis Date: **7/17/2021**	SeqNo: **2810387** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.023	0.9183	0	85.7	80	120	1.19	20	
Toluene	0.80	0.046	0.9183	0	87.2	80	120	1.98	20	
Ethylbenzene	0.84	0.046	0.9183	0	91.4	80	120	1.38	20	
Xylenes, Total	2.6	0.092	2.755	0	92.7	80	120	0.660	20	
Surr: 4-Bromofluorobenzene	1.1		0.9183		120	70	130	0	0	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **GHD Midland** Work Order Number: **2107641** RcptNo: 1

Received By: **Cheyenne Cason** **7/14/2021 7:30:00 AM** Chk

Completed By: **Sean Livingston** **7/14/2021 8:45:36 AM** S Livingston

Reviewed By: JR 7/14/21

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
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: TMC 7.14.21

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	0.9	Good				
2	2.1	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address:

324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

email or Fax#: Becky.Haskell@ghd.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush 5-Day

Project Name: Hornbaker RA Battery

Project #: 112728980

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 2 1.1 - 0.2 = 0.9

Cooler Temp(including CF): 2.3 - 0.2 = 2.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2107641	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride Method 300	Run only if TP3-14 fails
07/12/21	1505	S	TP3-10	Jar		001	X	X								X		
↓	1515	↓	TP3-14	↓		002	↓	↓								↓	X	
↓	1520	↓	TP3-18	↓		003	↓	↓								↓	X	

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
07/13/21	0800	Zach Comino				
7/13/21	1900				7/13/21	900
			Received by:	Via:	Date	Time
					7/14/21	0730

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com: Along with Becky Haskell listed above.
Direct Bill to EOG Chase Settle

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 26, 2021

Tom Larson
GHD Midland
2135 S Loop 250 W
Midland, TX 79703
TEL: (432) 686-0086
FAX:

RE: Hornbaker BA Battery OrderNo.: 2107642

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 23 sample(s) on 7/14/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order: **2107642**
Date Reported: **7/26/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Lab Order:** 2107642
Project: Hornbaker BA Battery

Lab ID: 2107642-001 **Collection Date:** 7/13/2021 8:00:00 AM
Client Sample ID: TP2-12 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	4700	150		mg/Kg	50	7/21/2021 3:03:25 PM	61410
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/16/2021 6:25:27 PM	61345
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/16/2021 6:25:27 PM	61345
Surr: DNOP	115	70-130		%Rec	1	7/16/2021 6:25:27 PM	61345
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/17/2021 3:07:00 AM	61315
Surr: BFB	109	70-130		%Rec	1	7/17/2021 3:07:00 AM	61315
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	7/17/2021 4:29:00 PM	61315
Toluene	ND	0.050		mg/Kg	1	7/17/2021 4:29:00 PM	61315
Ethylbenzene	ND	0.050		mg/Kg	1	7/17/2021 4:29:00 PM	61315
Xylenes, Total	ND	0.10		mg/Kg	1	7/17/2021 4:29:00 PM	61315
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	7/17/2021 4:29:00 PM	61315

Lab ID: 2107642-002 **Collection Date:** 7/13/2021 8:10:00 AM
Client Sample ID: TP2-16 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	6000	300		mg/Kg	100	7/21/2021 3:15:49 PM	61410
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/16/2021 6:49:21 PM	61345
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/16/2021 6:49:21 PM	61345
Surr: DNOP	113	70-130		%Rec	1	7/16/2021 6:49:21 PM	61345
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/17/2021 3:27:00 AM	61315
Surr: BFB	117	70-130		%Rec	1	7/17/2021 3:27:00 AM	61315
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	7/17/2021 4:49:00 PM	61315
Toluene	ND	0.048		mg/Kg	1	7/17/2021 4:49:00 PM	61315
Ethylbenzene	ND	0.048		mg/Kg	1	7/17/2021 4:49:00 PM	61315
Xylenes, Total	ND	0.096		mg/Kg	1	7/17/2021 4:49:00 PM	61315
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	7/17/2021 4:49:00 PM	61315

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

Qualifiers:

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

Analytical Report
Lab Order: **2107642**
Date Reported: **7/26/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery
Lab Order: 2107642

Lab ID: 2107642-003
Client Sample ID: TP2-20
Collection Date: 7/13/2021 8:20:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	8600	300		mg/Kg	100	7/23/2021 7:40:58 AM	61410
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/16/2021 7:13:12 PM	61345
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/16/2021 7:13:12 PM	61345
Surr: DNOP	115	70-130		%Rec	1	7/16/2021 7:13:12 PM	61345
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/17/2021 3:47:00 AM	61315
Surr: BFB	125	70-130		%Rec	1	7/17/2021 3:47:00 AM	61315
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.025		mg/Kg	1	7/17/2021 5:09:00 PM	61315
Toluene	ND	0.049		mg/Kg	1	7/17/2021 5:09:00 PM	61315
Ethylbenzene	ND	0.049		mg/Kg	1	7/17/2021 5:09:00 PM	61315
Xylenes, Total	ND	0.098		mg/Kg	1	7/17/2021 5:09:00 PM	61315
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	7/17/2021 5:09:00 PM	61315

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

Qualifiers:

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

Analytical Report
Lab Order: **2107642**
Date Reported: **7/26/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Lab Order:** 2107642
Project: Hornbaker BA Battery

Lab ID: 2107642-004 **Collection Date:** 7/13/2021 9:10:00 AM
Client Sample ID: TP1-20 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	650	59		mg/Kg	20	7/20/2021 12:50:00 PM	61410
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	760	94		mg/Kg	10	7/16/2021 7:37:02 PM	61345
Motor Oil Range Organics (MRO)	590	470		mg/Kg	10	7/16/2021 7:37:02 PM	61345
Surr: DNOP	0	70-130	S	%Rec	10	7/16/2021 7:37:02 PM	61345
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	58	5.0		mg/Kg	1	7/17/2021 5:29:00 PM	61315
Surr: BFB	339	70-130	S	%Rec	1	7/17/2021 5:29:00 PM	61315
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	0.033	0.025		mg/Kg	1	7/17/2021 5:29:00 PM	61315
Toluene	ND	0.050		mg/Kg	1	7/17/2021 5:29:00 PM	61315
Ethylbenzene	1.2	0.050		mg/Kg	1	7/17/2021 5:29:00 PM	61315
Xylenes, Total	1.6	0.10		mg/Kg	1	7/17/2021 5:29:00 PM	61315
Surr: 4-Bromofluorobenzene	214	70-130	S	%Rec	1	7/17/2021 5:29:00 PM	61315

Lab ID: 2107642-005 **Collection Date:** 7/13/2021 9:45:00 AM
Client Sample ID: TP9-8 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	590	60		mg/Kg	20	7/20/2021 1:02:25 PM	61410
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	26	9.5		mg/Kg	1	7/21/2021 11:42:35 AM	61345
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/21/2021 11:42:35 AM	61345
Surr: DNOP	87.2	70-130		%Rec	1	7/21/2021 11:42:35 AM	61345
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/17/2021 4:47:00 AM	61315
Surr: BFB	116	70-130		%Rec	1	7/17/2021 4:47:00 AM	61315
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	7/17/2021 6:09:00 PM	61315
Toluene	ND	0.047		mg/Kg	1	7/17/2021 6:09:00 PM	61315
Ethylbenzene	ND	0.047		mg/Kg	1	7/17/2021 6:09:00 PM	61315
Xylenes, Total	ND	0.094		mg/Kg	1	7/17/2021 6:09:00 PM	61315
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	7/17/2021 6:09:00 PM	61315

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

Qualifiers:

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

Analytical Report
Lab Order: **2107642**
Date Reported: **7/26/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Lab Order:** 2107642
Project: Hornbaker BA Battery

Lab ID: 2107642-006 **Collection Date:** 7/13/2021 10:00:00 AM
Client Sample ID: TP9-10 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	140	59		mg/Kg	20	7/20/2021 1:14:50 PM	61410
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	17	9.6		mg/Kg	1	7/21/2021 11:54:24 AM	61345
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/21/2021 11:54:24 AM	61345
Surr: DNOP	88.1	70-130		%Rec	1	7/21/2021 11:54:24 AM	61345
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/17/2021 5:06:00 AM	61315
Surr: BFB	109	70-130		%Rec	1	7/17/2021 5:06:00 AM	61315
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	7/17/2021 6:29:00 PM	61315
Toluene	ND	0.048		mg/Kg	1	7/17/2021 6:29:00 PM	61315
Ethylbenzene	ND	0.048		mg/Kg	1	7/17/2021 6:29:00 PM	61315
Xylenes, Total	ND	0.096		mg/Kg	1	7/17/2021 6:29:00 PM	61315
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	7/17/2021 6:29:00 PM	61315

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

Qualifiers:

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

Analytical Report
Lab Order: **2107642**
Date Reported: **7/26/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Lab Order:** 2107642
Project: Hornbaker BA Battery

Lab ID: 2107642-007 **Collection Date:** 7/13/2021 10:30:00 AM
Client Sample ID: TP6-12 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	8500	300		mg/Kg	100	7/21/2021 11:00:21 AM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/17/2021 10:21:30 AM	61348
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/17/2021 10:21:30 AM	61348
Surr: DNOP	115	70-130		%Rec	1	7/17/2021 10:21:30 AM	61348
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/16/2021 4:15:39 PM	61317
Surr: BFB	101	70-130		%Rec	1	7/16/2021 4:15:39 PM	61317
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/16/2021 4:15:39 PM	61317
Toluene	ND	0.050		mg/Kg	1	7/16/2021 4:15:39 PM	61317
Ethylbenzene	ND	0.050		mg/Kg	1	7/16/2021 4:15:39 PM	61317
Xylenes, Total	ND	0.099		mg/Kg	1	7/16/2021 4:15:39 PM	61317
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	7/16/2021 4:15:39 PM	61317

Lab ID: 2107642-008 **Collection Date:** 7/13/2021 10:40:00 AM
Client Sample ID: TP6-16 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	9900	300		mg/Kg	100	7/21/2021 11:12:46 AM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/17/2021 10:59:16 AM	61348
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/17/2021 10:59:16 AM	61348
Surr: DNOP	117	70-130		%Rec	1	7/17/2021 10:59:16 AM	61348
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/16/2021 5:27:13 PM	61317
Surr: BFB	100	70-130		%Rec	1	7/16/2021 5:27:13 PM	61317
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/16/2021 5:27:13 PM	61317
Toluene	ND	0.050		mg/Kg	1	7/16/2021 5:27:13 PM	61317
Ethylbenzene	ND	0.050		mg/Kg	1	7/16/2021 5:27:13 PM	61317
Xylenes, Total	ND	0.10		mg/Kg	1	7/16/2021 5:27:13 PM	61317
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/16/2021 5:27:13 PM	61317

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

Qualifiers:

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

Analytical Report
Lab Order: **2107642**
Date Reported: **7/26/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery
Lab Order: 2107642

Lab ID: 2107642-009
Client Sample ID: TP6-20
Collection Date: 7/13/2021 10:50:00 AM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	9900	610		mg/Kg	200	7/21/2021 4:05:27 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/17/2021 11:11:45 AM	61348
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/17/2021 11:11:45 AM	61348
Surr: DNOP	114	70-130		%Rec	1	7/17/2021 11:11:45 AM	61348
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/16/2021 6:38:37 PM	61317
Surr: BFB	97.8	70-130		%Rec	1	7/16/2021 6:38:37 PM	61317
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/16/2021 6:38:37 PM	61317
Toluene	ND	0.049		mg/Kg	1	7/16/2021 6:38:37 PM	61317
Ethylbenzene	ND	0.049		mg/Kg	1	7/16/2021 6:38:37 PM	61317
Xylenes, Total	ND	0.099		mg/Kg	1	7/16/2021 6:38:37 PM	61317
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/16/2021 6:38:37 PM	61317

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

Qualifiers:

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

Analytical Report
Lab Order: **2107642**
Date Reported: **7/26/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Lab Order:** 2107642
Project: Hornbaker BA Battery

Lab ID: 2107642-010 **Collection Date:** 7/13/2021 11:25:00 AM
Client Sample ID: TP5-12 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	5400	300		mg/Kg	100	7/21/2021 11:37:35 AM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/17/2021 11:24:30 AM	61348
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2021 11:24:30 AM	61348
Surr: DNOP	115	70-130		%Rec	1	7/17/2021 11:24:30 AM	61348
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/16/2021 7:02:22 PM	61317
Surr: BFB	98.4	70-130		%Rec	1	7/16/2021 7:02:22 PM	61317
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/16/2021 7:02:22 PM	61317
Toluene	ND	0.050		mg/Kg	1	7/16/2021 7:02:22 PM	61317
Ethylbenzene	ND	0.050		mg/Kg	1	7/16/2021 7:02:22 PM	61317
Xylenes, Total	ND	0.10		mg/Kg	1	7/16/2021 7:02:22 PM	61317
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/16/2021 7:02:22 PM	61317

Lab ID: 2107642-011 **Collection Date:** 7/13/2021 11:30:00 AM
Client Sample ID: TP5-16 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	7300	300		mg/Kg	100	7/21/2021 11:50:00 AM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/17/2021 11:36:56 AM	61348
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2021 11:36:56 AM	61348
Surr: DNOP	115	70-130		%Rec	1	7/17/2021 11:36:56 AM	61348
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/16/2021 7:26:07 PM	61317
Surr: BFB	99.7	70-130		%Rec	1	7/16/2021 7:26:07 PM	61317
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/16/2021 7:26:07 PM	61317
Toluene	ND	0.050		mg/Kg	1	7/16/2021 7:26:07 PM	61317
Ethylbenzene	ND	0.050		mg/Kg	1	7/16/2021 7:26:07 PM	61317
Xylenes, Total	ND	0.10		mg/Kg	1	7/16/2021 7:26:07 PM	61317
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/16/2021 7:26:07 PM	61317

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

Qualifiers:

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

Analytical Report
Lab Order: **2107642**
Date Reported: **7/26/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery
Lab Order: 2107642

Lab ID: 2107642-012
Collection Date: 7/13/2021 11:40:00 AM
Client Sample ID: TP5-20
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	9200	300		mg/Kg	100	7/21/2021 12:02:25 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/17/2021 11:49:38 AM	61348
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/17/2021 11:49:38 AM	61348
Surr: DNOP	120	70-130		%Rec	1	7/17/2021 11:49:38 AM	61348
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/16/2021 7:49:52 PM	61317
Surr: BFB	98.9	70-130		%Rec	1	7/16/2021 7:49:52 PM	61317
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/16/2021 7:49:52 PM	61317
Toluene	ND	0.050		mg/Kg	1	7/16/2021 7:49:52 PM	61317
Ethylbenzene	ND	0.050		mg/Kg	1	7/16/2021 7:49:52 PM	61317
Xylenes, Total	ND	0.099		mg/Kg	1	7/16/2021 7:49:52 PM	61317
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/16/2021 7:49:52 PM	61317

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

Qualifiers:

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

Analytical Report
Lab Order: **2107642**
Date Reported: **7/26/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Lab Order:** 2107642
Project: Hornbaker BA Battery

Lab ID: 2107642-013 **Collection Date:** 7/13/2021 1:15:00 PM
Client Sample ID: TP11-8 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	8600	300		mg/Kg	100	7/21/2021 12:14:50 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/17/2021 12:02:08 PM	61348
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/17/2021 12:02:08 PM	61348
Surr: DNOP	118	70-130		%Rec	1	7/17/2021 12:02:08 PM	61348
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/16/2021 8:13:31 PM	61317
Surr: BFB	97.7	70-130		%Rec	1	7/16/2021 8:13:31 PM	61317
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/16/2021 8:13:31 PM	61317
Toluene	ND	0.049		mg/Kg	1	7/16/2021 8:13:31 PM	61317
Ethylbenzene	ND	0.049		mg/Kg	1	7/16/2021 8:13:31 PM	61317
Xylenes, Total	ND	0.098		mg/Kg	1	7/16/2021 8:13:31 PM	61317
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/16/2021 8:13:31 PM	61317

Lab ID: 2107642-014 **Collection Date:** 7/13/2021 1:25:00 PM
Client Sample ID: TP11-12 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	9500	300		mg/Kg	100	7/21/2021 12:27:14 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/17/2021 12:14:47 PM	61348
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2021 12:14:47 PM	61348
Surr: DNOP	122	70-130		%Rec	1	7/17/2021 12:14:47 PM	61348
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/16/2021 8:37:08 PM	61317
Surr: BFB	98.7	70-130		%Rec	1	7/16/2021 8:37:08 PM	61317
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/16/2021 8:37:08 PM	61317
Toluene	ND	0.048		mg/Kg	1	7/16/2021 8:37:08 PM	61317
Ethylbenzene	ND	0.048		mg/Kg	1	7/16/2021 8:37:08 PM	61317
Xylenes, Total	ND	0.096		mg/Kg	1	7/16/2021 8:37:08 PM	61317
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/16/2021 8:37:08 PM	61317

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

Qualifiers:

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

Analytical Report
Lab Order: **2107642**
Date Reported: **7/26/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Lab Order:** 2107642
Project: Hornbaker BA Battery

Lab ID: 2107642-015 **Collection Date:** 7/13/2021 1:35:00 PM
Client Sample ID: TP11-15 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	8800	300		mg/Kg	100	7/21/2021 12:39:39 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/17/2021 12:27:20 PM	61348
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2021 12:27:20 PM	61348
Surr: DNOP	130	70-130		%Rec	1	7/17/2021 12:27:20 PM	61348
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/16/2021 9:00:46 PM	61317
Surr: BFB	97.4	70-130		%Rec	1	7/16/2021 9:00:46 PM	61317
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/16/2021 9:00:46 PM	61317
Toluene	ND	0.050		mg/Kg	1	7/16/2021 9:00:46 PM	61317
Ethylbenzene	ND	0.050		mg/Kg	1	7/16/2021 9:00:46 PM	61317
Xylenes, Total	ND	0.10		mg/Kg	1	7/16/2021 9:00:46 PM	61317
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/16/2021 9:00:46 PM	61317

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

Qualifiers:

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

Analytical Report
Lab Order: **2107642**
Date Reported: **7/26/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Lab Order:** 2107642
Project: Hornbaker BA Battery

Lab ID: 2107642-016 **Collection Date:** 7/13/2021 1:45:00 PM
Client Sample ID: TP11-18 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	10000	600		mg/Kg	200	7/21/2021 1:16:54 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/17/2021 12:39:55 PM	61348
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2021 12:39:55 PM	61348
Surr: DNOP	118	70-130		%Rec	1	7/17/2021 12:39:55 PM	61348
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/16/2021 9:24:23 PM	61317
Surr: BFB	96.1	70-130		%Rec	1	7/16/2021 9:24:23 PM	61317
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/16/2021 9:24:23 PM	61317
Toluene	ND	0.049		mg/Kg	1	7/16/2021 9:24:23 PM	61317
Ethylbenzene	ND	0.049		mg/Kg	1	7/16/2021 9:24:23 PM	61317
Xylenes, Total	ND	0.097		mg/Kg	1	7/16/2021 9:24:23 PM	61317
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/16/2021 9:24:23 PM	61317

Lab ID: 2107642-017 **Collection Date:** 7/13/2021 1:50:00 PM
Client Sample ID: TP11-20 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	16000	610		mg/Kg	200	7/21/2021 1:29:18 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/17/2021 12:52:33 PM	61348
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/17/2021 12:52:33 PM	61348
Surr: DNOP	111	70-130		%Rec	1	7/17/2021 12:52:33 PM	61348
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/16/2021 10:35:04 PM	61317
Surr: BFB	95.2	70-130		%Rec	1	7/16/2021 10:35:04 PM	61317
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/16/2021 10:35:04 PM	61317
Toluene	ND	0.050		mg/Kg	1	7/16/2021 10:35:04 PM	61317
Ethylbenzene	ND	0.050		mg/Kg	1	7/16/2021 10:35:04 PM	61317
Xylenes, Total	ND	0.099		mg/Kg	1	7/16/2021 10:35:04 PM	61317
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/16/2021 10:35:04 PM	61317

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

Qualifiers:

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

Analytical Report
Lab Order: **2107642**
Date Reported: **7/26/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery
Lab Order: 2107642

Lab ID: 2107642-018
Client Sample ID: TP13-7
Collection Date: 7/13/2021 2:10:00 PM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	11000	600		mg/Kg	200	7/21/2021 1:41:42 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/17/2021 1:05:10 PM	61348
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/17/2021 1:05:10 PM	61348
Surr: DNOP	120	70-130		%Rec	1	7/17/2021 1:05:10 PM	61348
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/16/2021 10:58:35 PM	61317
Surr: BFB	94.7	70-130		%Rec	1	7/16/2021 10:58:35 PM	61317
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/16/2021 10:58:35 PM	61317
Toluene	ND	0.050		mg/Kg	1	7/16/2021 10:58:35 PM	61317
Ethylbenzene	ND	0.050		mg/Kg	1	7/16/2021 10:58:35 PM	61317
Xylenes, Total	ND	0.099		mg/Kg	1	7/16/2021 10:58:35 PM	61317
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	7/16/2021 10:58:35 PM	61317

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

Qualifiers:

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

Analytical Report
Lab Order: **2107642**
Date Reported: **7/26/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Lab Order:** 2107642
Project: Hornbaker BA Battery

Lab ID: 2107642-019 **Collection Date:** 7/13/2021 2:30:00 PM
Client Sample ID: TP13-14 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	8500	300		mg/Kg	100	7/21/2021 1:54:07 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/17/2021 1:17:47 PM	61348
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2021 1:17:47 PM	61348
Surr: DNOP	110	70-130		%Rec	1	7/17/2021 1:17:47 PM	61348
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/16/2021 11:22:09 PM	61317
Surr: BFB	95.8	70-130		%Rec	1	7/16/2021 11:22:09 PM	61317
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/16/2021 11:22:09 PM	61317
Toluene	ND	0.049		mg/Kg	1	7/16/2021 11:22:09 PM	61317
Ethylbenzene	ND	0.049		mg/Kg	1	7/16/2021 11:22:09 PM	61317
Xylenes, Total	ND	0.098		mg/Kg	1	7/16/2021 11:22:09 PM	61317
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/16/2021 11:22:09 PM	61317

Lab ID: 2107642-020 **Collection Date:** 7/13/2021 2:45:00 PM
Client Sample ID: TP13-20 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	13000	600		mg/Kg	200	7/21/2021 2:06:32 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/17/2021 1:30:26 PM	61348
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/17/2021 1:30:26 PM	61348
Surr: DNOP	108	70-130		%Rec	1	7/17/2021 1:30:26 PM	61348
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/16/2021 11:45:35 PM	61317
Surr: BFB	95.5	70-130		%Rec	1	7/16/2021 11:45:35 PM	61317
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/16/2021 11:45:35 PM	61317
Toluene	ND	0.049		mg/Kg	1	7/16/2021 11:45:35 PM	61317
Ethylbenzene	ND	0.049		mg/Kg	1	7/16/2021 11:45:35 PM	61317
Xylenes, Total	ND	0.098		mg/Kg	1	7/16/2021 11:45:35 PM	61317
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/16/2021 11:45:35 PM	61317

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

Qualifiers:

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

Analytical Report
Lab Order: **2107642**
Date Reported: **7/26/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Project: Hornbaker BA Battery
Lab Order: 2107642

Lab ID: 2107642-021
Client Sample ID: TP15-14
Collection Date: 7/13/2021 3:20:00 PM
Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	4200	150		mg/Kg	50	7/21/2021 2:18:56 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/17/2021 1:43:04 PM	61348
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/17/2021 1:43:04 PM	61348
Surr: DNOP	108	70-130		%Rec	1	7/17/2021 1:43:04 PM	61348
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/17/2021 12:09:05 AM	61317
Surr: BFB	95.5	70-130		%Rec	1	7/17/2021 12:09:05 AM	61317
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/17/2021 12:09:05 AM	61317
Toluene	ND	0.049		mg/Kg	1	7/17/2021 12:09:05 AM	61317
Ethylbenzene	ND	0.049		mg/Kg	1	7/17/2021 12:09:05 AM	61317
Xylenes, Total	ND	0.099		mg/Kg	1	7/17/2021 12:09:05 AM	61317
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/17/2021 12:09:05 AM	61317

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

Qualifiers:

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

Analytical Report
Lab Order: **2107642**
Date Reported: **7/26/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Lab Order:** 2107642
Project: Hornbaker BA Battery

Lab ID: 2107642-022 **Collection Date:** 7/13/2021 3:30:00 PM
Client Sample ID: TP15-16 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	6000	300		mg/Kg	100	7/21/2021 2:31:21 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	390	9.9		mg/Kg	1	7/17/2021 1:55:42 PM	61348
Motor Oil Range Organics (MRO)	170	49		mg/Kg	1	7/17/2021 1:55:42 PM	61348
Surr: DNOP	106	70-130		%Rec	1	7/17/2021 1:55:42 PM	61348
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	9.7	4.9		mg/Kg	1	7/17/2021 12:32:36 AM	61317
Surr: BFB	165	70-130	S	%Rec	1	7/17/2021 12:32:36 AM	61317
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/17/2021 12:32:36 AM	61317
Toluene	ND	0.049		mg/Kg	1	7/17/2021 12:32:36 AM	61317
Ethylbenzene	0.071	0.049		mg/Kg	1	7/17/2021 12:32:36 AM	61317
Xylenes, Total	0.30	0.099		mg/Kg	1	7/17/2021 12:32:36 AM	61317
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	7/17/2021 12:32:36 AM	61317

Lab ID: 2107642-023 **Collection Date:** 7/13/2021 3:40:00 PM
Client Sample ID: TP15-20 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	6100	300		mg/Kg	100	7/21/2021 2:43:45 PM	61418
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/17/2021 2:21:16 PM	61348
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/17/2021 2:21:16 PM	61348
Surr: DNOP	110	70-130		%Rec	1	7/17/2021 2:21:16 PM	61348
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/17/2021 12:56:04 AM	61317
Surr: BFB	95.7	70-130		%Rec	1	7/17/2021 12:56:04 AM	61317
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/17/2021 12:56:04 AM	61317
Toluene	ND	0.049		mg/Kg	1	7/17/2021 12:56:04 AM	61317
Ethylbenzene	ND	0.049		mg/Kg	1	7/17/2021 12:56:04 AM	61317
Xylenes, Total	ND	0.099		mg/Kg	1	7/17/2021 12:56:04 AM	61317
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	7/17/2021 12:56:04 AM	61317

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

Qualifiers:

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

Analytical Report
Lab Order: **2107642**
Date Reported: **7/26/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	GHD Midland	**Lab Order:**	2107642
Project:	Hornbaker BA Battery		

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2107642**

26-Jul-21

Client: GHD Midland

Project: Hornbaker BA Battery

Sample ID: **MB-61418** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **61418** RunNo: **79937**
Prep Date: **7/20/2021** Analysis Date: **7/20/2021** SeqNo: **2812767** Units: **mg/Kg**

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

Sample ID: **LCS-61418** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **61418** RunNo: **79937**
Prep Date: **7/20/2021** Analysis Date: **7/20/2021** SeqNo: **2812768** Units: **mg/Kg**

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

Sample ID: **MB-61410** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **61410** RunNo: **79938**
Prep Date: **7/19/2021** Analysis Date: **7/20/2021** SeqNo: **2813087** Units: **mg/Kg**

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

Sample ID: **LCS-61410** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **61410** RunNo: **79938**
Prep Date: **7/19/2021** Analysis Date: **7/20/2021** SeqNo: **2813088** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2107642**
26-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **MB-61345**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **61345**	RunNo: **79901**
Prep Date: **7/15/2021**	Analysis Date: **7/16/2021**	SeqNo: **2810838** 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	13		10.00		126	70	130			

Sample ID: **LCS-61345**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **61345**	RunNo: **79901**
Prep Date: **7/15/2021**	Analysis Date: **7/16/2021**	SeqNo: **2810839** Units: **mg/Kg**

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	141			
Surr: DNOP	4.7		5.000		93.3	70	130			

Sample ID: **MB-61348**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **61348**	RunNo: **79910**
Prep Date: **7/15/2021**	Analysis Date: **7/17/2021**	SeqNo: **2812162** 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	13		10.00		129	70	130			

Sample ID: **LCS-61348**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **61348**	RunNo: **79910**
Prep Date: **7/15/2021**	Analysis Date: **7/17/2021**	SeqNo: **2812163** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	68.9	141			
Surr: DNOP	6.2		5.000		123	70	130			

Sample ID: **2107642-007AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **TP6-12**	Batch ID: **61348**	RunNo: **79910**
Prep Date: **7/15/2021**	Analysis Date: **7/17/2021**	SeqNo: **2812164** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.7	48.54	0	91.2	15	184			
Surr: DNOP	5.1		4.854		106	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2107642**
26-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **2107642-007AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **TP6-12**	Batch ID: **61348**	RunNo: **79910**
Prep Date: **7/15/2021**	Analysis Date: **7/17/2021**	SeqNo: **2812165** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.6	48.17	0	91.1	15	184	0.903	23.9	
Surr: DNOP	5.1		4.817		105	70	130	0	0	

Sample ID: **MB-61434**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **61434**	RunNo: **79955**
Prep Date: **7/20/2021**	Analysis Date: **7/21/2021**	SeqNo: **2813627** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	70	130			

Sample ID: **LCS-61434**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **61434**	RunNo: **79955**
Prep Date: **7/20/2021**	Analysis Date: **7/21/2021**	SeqNo: **2813628** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		84.3	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2107642**
26-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **lcs-61315**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **61315**	RunNo: **79869**							
Prep Date: **7/14/2021**	Analysis Date: **7/16/2021**	SeqNo: **2809671**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.0	78.6	131			
Surr: BFB	1200		1000		124	70	130			

Sample ID: **mb-61315**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **61315**	RunNo: **79869**							
Prep Date: **7/14/2021**	Analysis Date: **7/16/2021**	SeqNo: **2809672**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		109	70	130			

Sample ID: **mb-61317**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **61317**	RunNo: **79857**							
Prep Date: **7/14/2021**	Analysis Date: **7/16/2021**	SeqNo: **2809863**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.4	70	130			

Sample ID: **lcs-61317**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **61317**	RunNo: **79857**							
Prep Date: **7/14/2021**	Analysis Date: **7/16/2021**	SeqNo: **2809864**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	102	78.6	131			
Surr: BFB	1100		1000		109	70	130			

Sample ID: **2107642-007ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **TP6-12**	Batch ID: **61317**	RunNo: **79857**							
Prep Date: **7/14/2021**	Analysis Date: **7/16/2021**	SeqNo: **2809866**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	24.80	0	94.5	61.3	114			
Surr: BFB	1100		992.1		113	70	130			

Sample ID: **2107642-007amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **TP6-12**	Batch ID: **61317**	RunNo: **79857**							
Prep Date: **7/14/2021**	Analysis Date: **7/16/2021**	SeqNo: **2809867**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2107642**
26-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **2107642-007amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **TP6-12** Batch ID: **61317** RunNo: **79857**
Prep Date: **7/14/2021** Analysis Date: **7/16/2021** SeqNo: **2809867** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.56	0	92.1	61.3	114	3.52	20	
Surr: BFB	1100		982.3		110	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2107642**
26-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **lcs-61315**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **61315**	RunNo: **79869**
Prep Date: **7/14/2021**	Analysis Date: **7/16/2021**	SeqNo: **2809764** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.4	80	120			B
Toluene	0.88	0.050	1.000	0	88.1	80	120			B
Ethylbenzene	0.91	0.050	1.000	0	90.7	80	120			B
Xylenes, Total	2.7	0.10	3.000	0	91.5	80	120			B
Surr: 4-Bromofluorobenzene	1.1		1.000		110	70	130			

Sample ID: **mb-61315**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **61315**	RunNo: **79869**
Prep Date: **7/14/2021**	Analysis Date: **7/16/2021**	SeqNo: **2809765** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		111	70	130			

Sample ID: **mb-61317**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **61317**	RunNo: **79857**
Prep Date: **7/14/2021**	Analysis Date: **7/16/2021**	SeqNo: **2809931** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	70	130			

Sample ID: **LCS-61317**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **61317**	RunNo: **79857**
Prep Date: **7/14/2021**	Analysis Date: **7/16/2021**	SeqNo: **2809932** Units: **mg/Kg**

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	0.96	0.050	1.000	0	95.8	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.5	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2107642**

26-Jul-21

Client: GHD Midland

Project: Hornbaker BA Battery

Sample ID: **2107642-008ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **TP6-16** Batch ID: **61317** RunNo: **79857**

Prep Date: **7/14/2021** Analysis Date: **7/16/2021** SeqNo: **2809935** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	0.9911	0	94.0	80	120			
Toluene	0.97	0.050	0.9911	0	97.4	80	120			
Ethylbenzene	0.98	0.050	0.9911	0	98.4	80	120			
Xylenes, Total	2.9	0.099	2.973	0	98.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		0.9911		106	70	130			

Sample ID: **2107642-008amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **TP6-16** Batch ID: **61317** RunNo: **79857**

Prep Date: **7/14/2021** Analysis Date: **7/16/2021** SeqNo: **2809936** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.024	0.9737	0	92.2	80	120	3.70	20	
Toluene	0.94	0.049	0.9737	0	96.5	80	120	2.70	20	
Ethylbenzene	0.95	0.049	0.9737	0	97.9	80	120	2.29	20	
Xylenes, Total	2.9	0.097	2.921	0	98.8	80	120	1.83	20	
Surr: 4-Bromofluorobenzene	1.0		0.9737		104	70	130	0	0	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **GHD Midland** Work Order Number: **2107642** RcptNo: 1

Received By: **Cheyenne Cason** **7/14/2021 7:30:00 AM** Chk

Completed By: **Sean Livingston** **7/14/2021 9:01:23 AM** S Livingston

Reviewed By: JR 7/14/21

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
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: TMC. 7.14.21

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	0.9	Good				
2	2.1	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address:

324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

email or Fax#: Becky.Haskell@ghd.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other_____

☐ EDD (Type) _____

Turn-Around Time: 5 Day

☑ Standard ☐ Rush_____

Project Name: Hornbaker BA Battery

Project #: 11228980

Project Manager:

Becky Haskell

Tom Larson

Sampler: ~~Zach Comino~~ Heath Boyd

On Ice: X Yes ☐ No

# of Coolers: 2 1.1 -0.2 ~~0.9~~ 0.9

Cooler Temp(including CF): 2.3 -0.2 = 2.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2107642	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride Method 300
7/13/21	800	S	TP2-12	4oz. Jar 1	N/A	001	X	X									X
	810		TP2-16			002	X	X									X
	820		TP2-20			003	X	X									X
	910		TP1-20			004	X	X									X
	945		TP9-8			005	X	X									X
	1000		TP9-10			006	X	X									X
	1030		TP6-12			007	X	X									X
	1040		TP6-16			008	X	X									X
	1050		TP6-20			009	X	X									X
	1125		TP5-12			010	X	X									X
	1130		TP5-16			011	X	X									X
↓	1140	↓	TP5-20	↓	↓	012	X	X									X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
7/13/21	1730			-	7/13/21	1730
7/13/21	1900		Zach Comino		7/14/21	0730

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com: Along with Becky Haskell listed above.
Direct Bill to EOG Chase Settle

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: GHD

Mailing Address: 324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

email or Fax#: Becky.Haskell@ghd.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time: 5 Days
☑ Standard ☐ Rush

Project Name: Hornbaker BA Battery

Project #: 1122080

Project Manager:
Becky Haskell
Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 2 1.1-0.2=0.9

Cooler Temp(including CF): 2.3-0.2=2.1

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride Method 300
7/13/21	1315	S	TP11-8	4oz. Jar 1	N/A	013	X	X									X
	1325		TP11-12			014											
	1335		TP11-15			015											
	1345		TP11-18			016											
	1350		TP11-20			017											
	1410		TP13-7			018											
	1430		TP13-14			019											
	1445		TP13-20			020											
	1520		TP15-14			021											
	1530		TP15-16			022											
↓	1540	X	TP15-20	X	↓	023	↓	X								X	

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
7/13/21	1730				7/13/21	1730
7/13/21	1900				7/14/21	0730

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com: Along with Becky Haskell listed above.
Direct Bill to EOG Chase Settle

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 28, 2021

Tom Larson
GHD Midland
2135 S Loop 250 W
Midland, TX 79703
TEL: (432) 686-0086
FAX

RE: Hornbaker BA Battery OrderNo.: 2107732

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 20 sample(s) on 7/15/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2107732**
Date Reported: **7/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP17-8
Project: Hornbaker BA Battery
Collection Date: 7/14/2021 7:50:00 AM
Lab ID: 2107732-001 **Matrix:** SOIL **Received Date:** 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	2500	150		mg/Kg	50	7/22/2021 7:38:06 AM	61426
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/17/2021 1:01:49 PM	61367
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2021 1:01:49 PM	61367
Surr: DNOP	82.7	70-130		%Rec	1	7/17/2021 1:01:49 PM	61367
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/17/2021 9:10:01 AM	61346
Surr: BFB	94.3	70-130		%Rec	1	7/17/2021 9:10:01 AM	61346
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/17/2021 9:10:01 AM	61346
Toluene	ND	0.049		mg/Kg	1	7/17/2021 9:10:01 AM	61346
Ethylbenzene	ND	0.049		mg/Kg	1	7/17/2021 9:10:01 AM	61346
Xylenes, Total	ND	0.099		mg/Kg	1	7/17/2021 9:10:01 AM	61346
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/17/2021 9:10:01 AM	61346

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

Qualifiers:

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

Analytical Report
Lab Order **2107732**
Date Reported: **7/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP17-14
Project: Hornbaker BA Battery
Collection Date: 7/14/2021 8:00:00 AM
Lab ID: 2107732-002 **Matrix:** SOIL **Received Date:** 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	5100	150		mg/Kg	50	7/22/2021 7:50:30 AM	61426
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/17/2021 1:25:49 PM	61367
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/17/2021 1:25:49 PM	61367
Surr: DNOP	85.3	70-130		%Rec	1	7/17/2021 1:25:49 PM	61367
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/17/2021 9:33:35 AM	61346
Surr: BFB	94.8	70-130		%Rec	1	7/17/2021 9:33:35 AM	61346
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	7/17/2021 9:33:35 AM	61346
Toluene	ND	0.046		mg/Kg	1	7/17/2021 9:33:35 AM	61346
Ethylbenzene	ND	0.046		mg/Kg	1	7/17/2021 9:33:35 AM	61346
Xylenes, Total	ND	0.093		mg/Kg	1	7/17/2021 9:33:35 AM	61346
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	7/17/2021 9:33:35 AM	61346

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

Qualifiers:

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

Analytical Report
Lab Order **2107732**
Date Reported: **7/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP17-20
Project: Hornbaker BA Battery
Collection Date: 7/14/2021 8:15:00 AM
Lab ID: 2107732-003 **Matrix:** SOIL **Received Date:** 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	9200	600		mg/Kg	200	7/22/2021 8:02:55 AM	61426
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/17/2021 1:49:48 PM	61367
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/17/2021 1:49:48 PM	61367
Surr: DNOP	80.6	70-130		%Rec	1	7/17/2021 1:49:48 PM	61367
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/17/2021 10:44:12 AM	61346
Surr: BFB	95.6	70-130		%Rec	1	7/17/2021 10:44:12 AM	61346
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/17/2021 10:44:12 AM	61346
Toluene	ND	0.047		mg/Kg	1	7/17/2021 10:44:12 AM	61346
Ethylbenzene	ND	0.047		mg/Kg	1	7/17/2021 10:44:12 AM	61346
Xylenes, Total	ND	0.095		mg/Kg	1	7/17/2021 10:44:12 AM	61346
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/17/2021 10:44:12 AM	61346

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

Qualifiers:

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

Analytical Report
Lab Order **2107732**
Date Reported: **7/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP19-10
Project: Hornbaker BA Battery
Collection Date: 7/14/2021 9:00:00 AM
Lab ID: 2107732-004 **Matrix:** SOIL **Received Date:** 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	210	59		mg/Kg	20	7/20/2021 6:39:34 PM	61426
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/17/2021 2:13:45 PM	61367
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2021 2:13:45 PM	61367
Surr: DNOP	79.4	70-130		%Rec	1	7/17/2021 2:13:45 PM	61367
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/17/2021 11:07:48 AM	61346
Surr: BFB	94.8	70-130		%Rec	1	7/17/2021 11:07:48 AM	61346
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	7/17/2021 11:07:48 AM	61346
Toluene	ND	0.046		mg/Kg	1	7/17/2021 11:07:48 AM	61346
Ethylbenzene	ND	0.046		mg/Kg	1	7/17/2021 11:07:48 AM	61346
Xylenes, Total	ND	0.093		mg/Kg	1	7/17/2021 11:07:48 AM	61346
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	7/17/2021 11:07:48 AM	61346

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

Qualifiers:

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

Analytical Report
Lab Order **2107732**
Date Reported: **7/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP19-14
Project: Hornbaker BA Battery
Collection Date: 7/14/2021 9:10:00 AM
Lab ID: 2107732-005 **Matrix:** SOIL **Received Date:** 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	180	61		mg/Kg	20	7/20/2021 6:51:59 PM	61426
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/17/2021 2:37:42 PM	61367
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/17/2021 2:37:42 PM	61367
Surr: DNOP	79.7	70-130		%Rec	1	7/17/2021 2:37:42 PM	61367
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/17/2021 11:31:25 AM	61346
Surr: BFB	93.6	70-130		%Rec	1	7/17/2021 11:31:25 AM	61346
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/17/2021 11:31:25 AM	61346
Toluene	ND	0.048		mg/Kg	1	7/17/2021 11:31:25 AM	61346
Ethylbenzene	ND	0.048		mg/Kg	1	7/17/2021 11:31:25 AM	61346
Xylenes, Total	ND	0.096		mg/Kg	1	7/17/2021 11:31:25 AM	61346
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	7/17/2021 11:31:25 AM	61346

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

Qualifiers:

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

Analytical Report
Lab Order **2107732**
Date Reported: **7/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP23-12
Project: Hornbaker BA Battery
Collection Date: 7/14/2021 9:35:00 AM
Lab ID: 2107732-006 **Matrix:** SOIL **Received Date:** 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	260	60		mg/Kg	20	7/20/2021 7:04:24 PM	61426
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/17/2021 3:01:44 PM	61367
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/17/2021 3:01:44 PM	61367
Surr: DNOP	77.8	70-130		%Rec	1	7/17/2021 3:01:44 PM	61367
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/17/2021 11:54:55 AM	61346
Surr: BFB	95.8	70-130		%Rec	1	7/17/2021 11:54:55 AM	61346
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/17/2021 11:54:55 AM	61346
Toluene	ND	0.049		mg/Kg	1	7/17/2021 11:54:55 AM	61346
Ethylbenzene	ND	0.049		mg/Kg	1	7/17/2021 11:54:55 AM	61346
Xylenes, Total	ND	0.098		mg/Kg	1	7/17/2021 11:54:55 AM	61346
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/17/2021 11:54:55 AM	61346

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

Qualifiers:

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

Analytical Report
Lab Order **2107732**
Date Reported: **7/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP23-14
Project: Hornbaker BA Battery
Collection Date: 7/14/2021 9:45:00 AM
Lab ID: 2107732-007 **Matrix:** SOIL **Received Date:** 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	7/20/2021 7:16:48 PM	61426
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/17/2021 3:25:47 PM	61367
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/17/2021 3:25:47 PM	61367
Surr: DNOP	76.9	70-130		%Rec	1	7/17/2021 3:25:47 PM	61367
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/17/2021 12:18:29 PM	61346
Surr: BFB	93.2	70-130		%Rec	1	7/17/2021 12:18:29 PM	61346
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/17/2021 12:18:29 PM	61346
Toluene	ND	0.050		mg/Kg	1	7/17/2021 12:18:29 PM	61346
Ethylbenzene	ND	0.050		mg/Kg	1	7/17/2021 12:18:29 PM	61346
Xylenes, Total	ND	0.099		mg/Kg	1	7/17/2021 12:18:29 PM	61346
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	7/17/2021 12:18:29 PM	61346

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

Qualifiers:

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

Analytical Report
Lab Order **2107732**
Date Reported: **7/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP26-8
Project: Hornbaker BA Battery
Collection Date: 7/14/2021 10:10:00 AM
Lab ID: 2107732-008 **Matrix:** SOIL **Received Date:** 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	2100	60		mg/Kg	20	7/20/2021 7:29:13 PM	61426
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/17/2021 3:49:48 PM	61367
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/17/2021 3:49:48 PM	61367
Surr: DNOP	75.7	70-130		%Rec	1	7/17/2021 3:49:48 PM	61367
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/17/2021 12:42:08 PM	61346
Surr: BFB	94.5	70-130		%Rec	1	7/17/2021 12:42:08 PM	61346
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/17/2021 12:42:08 PM	61346
Toluene	ND	0.048		mg/Kg	1	7/17/2021 12:42:08 PM	61346
Ethylbenzene	ND	0.048		mg/Kg	1	7/17/2021 12:42:08 PM	61346
Xylenes, Total	ND	0.096		mg/Kg	1	7/17/2021 12:42:08 PM	61346
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	7/17/2021 12:42:08 PM	61346

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

Qualifiers:

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

Analytical Report
Lab Order **2107732**
Date Reported: **7/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP26-16
Project: Hornbaker BA Battery
Collection Date: 7/14/2021 10:30:00 AM
Lab ID: 2107732-009 **Matrix:** SOIL **Received Date:** 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	1900	60		mg/Kg	20	7/20/2021 11:24:56 PM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/17/2021 4:13:47 PM	61367
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/17/2021 4:13:47 PM	61367
Surr: DNOP	72.5	70-130		%Rec	1	7/17/2021 4:13:47 PM	61367
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/17/2021 1:05:47 PM	61346
Surr: BFB	95.4	70-130		%Rec	1	7/17/2021 1:05:47 PM	61346
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/17/2021 1:05:47 PM	61346
Toluene	ND	0.047		mg/Kg	1	7/17/2021 1:05:47 PM	61346
Ethylbenzene	ND	0.047		mg/Kg	1	7/17/2021 1:05:47 PM	61346
Xylenes, Total	ND	0.095		mg/Kg	1	7/17/2021 1:05:47 PM	61346
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	7/17/2021 1:05:47 PM	61346

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

Qualifiers:

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

Analytical Report
Lab Order **2107732**
Date Reported: **7/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP26-20
Project: Hornbaker BA Battery
Collection Date: 7/14/2021 10:40:00 AM
Lab ID: 2107732-010 **Matrix:** SOIL **Received Date:** 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	1300	60		mg/Kg	20	7/20/2021 11:37:20 PM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/17/2021 4:37:46 PM	61367
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/17/2021 4:37:46 PM	61367
Surr: DNOP	72.7	70-130		%Rec	1	7/17/2021 4:37:46 PM	61367
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/17/2021 1:29:29 PM	61346
Surr: BFB	95.3	70-130		%Rec	1	7/17/2021 1:29:29 PM	61346
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/17/2021 1:29:29 PM	61346
Toluene	ND	0.048		mg/Kg	1	7/17/2021 1:29:29 PM	61346
Ethylbenzene	ND	0.048		mg/Kg	1	7/17/2021 1:29:29 PM	61346
Xylenes, Total	ND	0.096		mg/Kg	1	7/17/2021 1:29:29 PM	61346
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	7/17/2021 1:29:29 PM	61346

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

Qualifiers:

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

Analytical Report
Lab Order **2107732**
Date Reported: **7/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP27-4
Project: Hornbaker BA Battery
Collection Date: 7/14/2021 11:15:00 AM
Lab ID: 2107732-011 **Matrix:** SOIL **Received Date:** 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	1100	60		mg/Kg	20	7/20/2021 11:49:45 PM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/17/2021 5:01:49 PM	61367
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/17/2021 5:01:49 PM	61367
Surr: DNOP	76.6	70-130		%Rec	1	7/17/2021 5:01:49 PM	61367
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/17/2021 1:53:15 PM	61346
Surr: BFB	96.8	70-130		%Rec	1	7/17/2021 1:53:15 PM	61346
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/17/2021 1:53:15 PM	61346
Toluene	ND	0.049		mg/Kg	1	7/17/2021 1:53:15 PM	61346
Ethylbenzene	ND	0.049		mg/Kg	1	7/17/2021 1:53:15 PM	61346
Xylenes, Total	ND	0.098		mg/Kg	1	7/17/2021 1:53:15 PM	61346
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/17/2021 1:53:15 PM	61346

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

Qualifiers:

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

Analytical Report
Lab Order **2107732**
Date Reported: **7/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP27-11
Project: Hornbaker BA Battery
Collection Date: 7/14/2021 11:30:00 AM
Lab ID: 2107732-012 **Matrix:** SOIL **Received Date:** 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	700	60		mg/Kg	20	7/21/2021 12:02:10 AM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/17/2021 5:25:49 PM	61367
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/17/2021 5:25:49 PM	61367
Surr: DNOP	74.4	70-130		%Rec	1	7/17/2021 5:25:49 PM	61367
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/17/2021 2:16:54 PM	61346
Surr: BFB	95.8	70-130		%Rec	1	7/17/2021 2:16:54 PM	61346
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/17/2021 2:16:54 PM	61346
Toluene	ND	0.047		mg/Kg	1	7/17/2021 2:16:54 PM	61346
Ethylbenzene	ND	0.047		mg/Kg	1	7/17/2021 2:16:54 PM	61346
Xylenes, Total	ND	0.094		mg/Kg	1	7/17/2021 2:16:54 PM	61346
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/17/2021 2:16:54 PM	61346

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

Qualifiers:

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

Analytical Report
Lab Order **2107732**
Date Reported: **7/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP27-16
Project: Hornbaker BA Battery
Collection Date: 7/14/2021 11:50:00 AM
Lab ID: 2107732-013 **Matrix:** SOIL **Received Date:** 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	200	59		mg/Kg	20	7/21/2021 12:14:35 AM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/17/2021 5:49:47 PM	61367
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/17/2021 5:49:47 PM	61367
Surr: DNOP	73.8	70-130		%Rec	1	7/17/2021 5:49:47 PM	61367
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/16/2021 4:27:00 PM	61351
Surr: BFB	110	70-130		%Rec	1	7/16/2021 4:27:00 PM	61351
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	7/16/2021 4:27:00 PM	61351
Toluene	ND	0.046		mg/Kg	1	7/16/2021 4:27:00 PM	61351
Ethylbenzene	ND	0.046		mg/Kg	1	7/16/2021 4:27:00 PM	61351
Xylenes, Total	ND	0.092		mg/Kg	1	7/16/2021 4:27:00 PM	61351
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	7/16/2021 4:27:00 PM	61351

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

Qualifiers:

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

Analytical Report
Lab Order **2107732**
Date Reported: **7/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP22-4
Project: Hornbaker BA Battery
Collection Date: 7/14/2021 1:15:00 PM
Lab ID: 2107732-014 **Matrix:** SOIL **Received Date:** 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	1000	60		mg/Kg	20	7/21/2021 12:26:59 AM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	1300	98		mg/Kg	10	7/19/2021 11:58:25 PM	61367
Motor Oil Range Organics (MRO)	1400	490		mg/Kg	10	7/19/2021 11:58:25 PM	61367
Surr: DNOP	0	70-130	S	%Rec	10	7/19/2021 11:58:25 PM	61367
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	7/16/2021 4:47:00 PM	61351
Surr: BFB	118	70-130		%Rec	5	7/16/2021 4:47:00 PM	61351
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.12		mg/Kg	5	7/16/2021 4:47:00 PM	61351
Toluene	ND	0.23		mg/Kg	5	7/16/2021 4:47:00 PM	61351
Ethylbenzene	ND	0.23		mg/Kg	5	7/16/2021 4:47:00 PM	61351
Xylenes, Total	ND	0.47		mg/Kg	5	7/16/2021 4:47:00 PM	61351
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	5	7/16/2021 4:47:00 PM	61351

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

Qualifiers:

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

Analytical Report
Lab Order **2107732**
Date Reported: **7/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP22-7
Project: Hornbaker BA Battery
Collection Date: 7/14/2021 1:20:00 PM
Lab ID: 2107732-015 **Matrix:** SOIL **Received Date:** 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	2100	60		mg/Kg	20	7/21/2021 1:04:13 AM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	230	19		mg/Kg	2	7/20/2021 12:22:09 AM	61367
Motor Oil Range Organics (MRO)	310	97		mg/Kg	2	7/20/2021 12:22:09 AM	61367
Surr: DNOP	105	70-130		%Rec	2	7/20/2021 12:22:09 AM	61367
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/16/2021 5:07:00 PM	61351
Surr: BFB	105	70-130		%Rec	1	7/16/2021 5:07:00 PM	61351
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	7/16/2021 5:07:00 PM	61351
Toluene	ND	0.047		mg/Kg	1	7/16/2021 5:07:00 PM	61351
Ethylbenzene	ND	0.047		mg/Kg	1	7/16/2021 5:07:00 PM	61351
Xylenes, Total	ND	0.093		mg/Kg	1	7/16/2021 5:07:00 PM	61351
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	7/16/2021 5:07:00 PM	61351

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

Qualifiers:

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

Analytical Report
Lab Order **2107732**
Date Reported: **7/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP22-14
Project: Hornbaker BA Battery
Collection Date: 7/14/2021 1:30:00 PM
Lab ID: 2107732-016 **Matrix:** SOIL **Received Date:** 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	1500	59		mg/Kg	20	7/21/2021 1:16:38 AM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/17/2021 7:01:39 PM	61367
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/17/2021 7:01:39 PM	61367
Surr: DNOP	87.8	70-130		%Rec	1	7/17/2021 7:01:39 PM	61367
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/16/2021 5:27:00 PM	61351
Surr: BFB	110	70-130		%Rec	1	7/16/2021 5:27:00 PM	61351
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	7/16/2021 5:27:00 PM	61351
Toluene	ND	0.046		mg/Kg	1	7/16/2021 5:27:00 PM	61351
Ethylbenzene	ND	0.046		mg/Kg	1	7/16/2021 5:27:00 PM	61351
Xylenes, Total	ND	0.093		mg/Kg	1	7/16/2021 5:27:00 PM	61351
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	7/16/2021 5:27:00 PM	61351

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

Qualifiers:

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

Analytical Report
Lab Order **2107732**
Date Reported: **7/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP22-20
Project: Hornbaker BA Battery
Collection Date: 7/14/2021 1:45:00 PM
Lab ID: 2107732-017 **Matrix:** SOIL **Received Date:** 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	2200	150		mg/Kg	50	7/22/2021 8:15:19 AM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	190	48		mg/Kg	5	7/20/2021 3:30:56 PM	61367
Motor Oil Range Organics (MRO)	350	240		mg/Kg	5	7/20/2021 3:30:56 PM	61367
Surr: DNOP	144	70-130	S	%Rec	5	7/20/2021 3:30:56 PM	61367
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/16/2021 5:47:00 PM	61351
Surr: BFB	113	70-130		%Rec	1	7/16/2021 5:47:00 PM	61351
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	7/16/2021 5:47:00 PM	61351
Toluene	ND	0.048		mg/Kg	1	7/16/2021 5:47:00 PM	61351
Ethylbenzene	ND	0.048		mg/Kg	1	7/16/2021 5:47:00 PM	61351
Xylenes, Total	ND	0.096		mg/Kg	1	7/16/2021 5:47:00 PM	61351
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	7/16/2021 5:47:00 PM	61351

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

Qualifiers:

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

Analytical Report
Lab Order **2107732**
Date Reported: **7/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP28-8
Project: Hornbaker BA Battery
Collection Date: 7/14/2021 2:25:00 PM
Lab ID: 2107732-018 **Matrix:** SOIL **Received Date:** 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	2400	150		mg/Kg	50	7/22/2021 8:27:44 AM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/19/2021 8:39:50 PM	61383
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/19/2021 8:39:50 PM	61383
Surr: DNOP	115	70-130		%Rec	1	7/19/2021 8:39:50 PM	61383
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/19/2021 12:31:25 PM	61362
Surr: BFB	95.9	70-130		%Rec	1	7/19/2021 12:31:25 PM	61362
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/19/2021 12:31:25 PM	61362
Toluene	ND	0.049		mg/Kg	1	7/19/2021 12:31:25 PM	61362
Ethylbenzene	ND	0.049		mg/Kg	1	7/19/2021 12:31:25 PM	61362
Xylenes, Total	ND	0.099		mg/Kg	1	7/19/2021 12:31:25 PM	61362
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/19/2021 12:31:25 PM	61362

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

Qualifiers:

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

Analytical Report
Lab Order **2107732**
Date Reported: **7/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP28-12
Project: Hornbaker BA Battery
Collection Date: 7/14/2021 2:30:00 PM
Lab ID: 2107732-019 **Matrix:** SOIL **Received Date:** 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	2100	150		mg/Kg	50	7/22/2021 8:40:08 AM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/19/2021 9:17:49 PM	61383
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/19/2021 9:17:49 PM	61383
Surr: DNOP	107	70-130		%Rec	1	7/19/2021 9:17:49 PM	61383
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/19/2021 1:42:30 PM	61362
Surr: BFB	96.2	70-130		%Rec	1	7/19/2021 1:42:30 PM	61362
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/19/2021 1:42:30 PM	61362
Toluene	ND	0.049		mg/Kg	1	7/19/2021 1:42:30 PM	61362
Ethylbenzene	ND	0.049		mg/Kg	1	7/19/2021 1:42:30 PM	61362
Xylenes, Total	ND	0.098		mg/Kg	1	7/19/2021 1:42:30 PM	61362
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	7/19/2021 1:42:30 PM	61362

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

Qualifiers:

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

Analytical Report
Lab Order **2107732**
Date Reported: **7/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP28-20
Project: Hornbaker BA Battery
Collection Date: 7/14/2021 2:45:00 PM
Lab ID: 2107732-020 **Matrix:** SOIL **Received Date:** 7/15/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	570	60		mg/Kg	20	7/21/2021 2:06:15 AM	61435
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/19/2021 9:30:40 PM	61383
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/19/2021 9:30:40 PM	61383
Surr: DNOP	109	70-130		%Rec	1	7/19/2021 9:30:40 PM	61383
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/19/2021 2:53:38 PM	61362
Surr: BFB	99.5	70-130		%Rec	1	7/19/2021 2:53:38 PM	61362
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/19/2021 2:53:38 PM	61362
Toluene	ND	0.049		mg/Kg	1	7/19/2021 2:53:38 PM	61362
Ethylbenzene	ND	0.049		mg/Kg	1	7/19/2021 2:53:38 PM	61362
Xylenes, Total	ND	0.099		mg/Kg	1	7/19/2021 2:53:38 PM	61362
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/19/2021 2:53:38 PM	61362

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2107732**

28-Jul-21

Client: GHD Midland

Project: Hornbaker BA Battery

Sample ID: **MB-61426** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **61426** RunNo: **79937**
Prep Date: **7/20/2021** Analysis Date: **7/20/2021** SeqNo: **2812799** Units: **mg/Kg**

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

Sample ID: **LCS-61426** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **61426** RunNo: **79937**
Prep Date: **7/20/2021** Analysis Date: **7/20/2021** SeqNo: **2812800** Units: **mg/Kg**

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: **MB-61435** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **61435** RunNo: **79937**
Prep Date: **7/20/2021** Analysis Date: **7/20/2021** SeqNo: **2812833** Units: **mg/Kg**

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

Sample ID: **LCS-61435** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **61435** RunNo: **79937**
Prep Date: **7/20/2021** Analysis Date: **7/20/2021** SeqNo: **2812834** Units: **mg/Kg**

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2107732**
28-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **MB-61367**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **61367**	RunNo: **79892**
Prep Date: **7/16/2021**	Analysis Date: **7/17/2021**	SeqNo: **2810639** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	70	130			

Sample ID: **LCS-61367**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **61367**	RunNo: **79892**
Prep Date: **7/16/2021**	Analysis Date: **7/17/2021**	SeqNo: **2810640** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.4	68.9	141			
Surr: DNOP	4.6		5.000		92.7	70	130			

Sample ID: **2107732-018AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **TP28-8**	Batch ID: **61383**	RunNo: **79895**
Prep Date: **7/17/2021**	Analysis Date: **7/19/2021**	SeqNo: **2812448** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	9.2	45.87	0	83.5	15	184			
Surr: DNOP	4.3		4.587		94.2	70	130			

Sample ID: **2107732-018AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **TP28-8**	Batch ID: **61383**	RunNo: **79895**
Prep Date: **7/17/2021**	Analysis Date: **7/19/2021**	SeqNo: **2812450** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.8	48.78	0	92.5	15	184	16.4	23.9	
Surr: DNOP	4.7		4.878		95.8	70	130	0	0	

Sample ID: **MB-61383**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **61383**	RunNo: **79895**
Prep Date: **7/17/2021**	Analysis Date: **7/19/2021**	SeqNo: **2812460** 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	11		10.00		106	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2107732**
28-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **LCS-61383**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **61383**	RunNo: **79895**
Prep Date: **7/17/2021**	Analysis Date: **7/19/2021**	SeqNo: **2812461** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.7	68.9	141			
Surr: DNOP	4.9		5.000		97.0	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2107732**
28-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **lcs-61351**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **61351**	RunNo: **79869**							
Prep Date: **7/15/2021**	Analysis Date: **7/16/2021**	SeqNo: **2809647**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	78.6	131			
Surr: BFB	1200		1000		122	70	130			

Sample ID: **mb-61351**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **61351**	RunNo: **79869**							
Prep Date: **7/15/2021**	Analysis Date: **7/16/2021**	SeqNo: **2809648**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		109	70	130			

Sample ID: **mb-61346**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **61346**	RunNo: **79857**							
Prep Date: **7/15/2021**	Analysis Date: **7/17/2021**	SeqNo: **2809887**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		94.8	70	130			

Sample ID: **lcs-61346**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **61346**	RunNo: **79857**							
Prep Date: **7/15/2021**	Analysis Date: **7/17/2021**	SeqNo: **2809888**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.2	78.6	131			
Surr: BFB	1000		1000		103	70	130			

Sample ID: **mb-61362**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **61362**	RunNo: **79883**							
Prep Date: **7/15/2021**	Analysis Date: **7/19/2021**	SeqNo: **2810954**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		96.5	70	130			

Sample ID: **lcs-61362**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **61362**	RunNo: **79883**							
Prep Date: **7/15/2021**	Analysis Date: **7/19/2021**	SeqNo: **2810955**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2107732**
28-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **lcs-61362**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **61362**	RunNo: **79883**
Prep Date: **7/15/2021**	Analysis Date: **7/19/2021**	SeqNo: **2810955** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.0	78.6	131			
Surr: BFB	1100		1000		107	70	130			

Sample ID: **2107732-018ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **TP28-8**	Batch ID: **61362**	RunNo: **79883**
Prep Date: **7/15/2021**	Analysis Date: **7/19/2021**	SeqNo: **2810957** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	24.22	0	89.3	61.3	114			
Surr: BFB	1000		969.0		105	70	130			

Sample ID: **2107732-018amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **TP28-8**	Batch ID: **61362**	RunNo: **79883**
Prep Date: **7/15/2021**	Analysis Date: **7/19/2021**	SeqNo: **2810958** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.56	0	92.0	61.3	114	4.36	20	
Surr: BFB	1000		982.3		105	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2107732**
28-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **lcs-61351**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **61351**	RunNo: **79869**
Prep Date: **7/15/2021**	Analysis Date: **7/16/2021**	SeqNo: **2809738** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	84.3	80	120			
Toluene	0.87	0.050	1.000	0	87.4	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.3	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.7	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		112	70	130			

Sample ID: **mb-61351**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **61351**	RunNo: **79869**
Prep Date: **7/15/2021**	Analysis Date: **7/16/2021**	SeqNo: **2809739** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		110	70	130			

Sample ID: **mb-61346**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **61346**	RunNo: **79857**
Prep Date: **7/15/2021**	Analysis Date: **7/17/2021**	SeqNo: **2809955** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Sample ID: **LCS-61346**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **61346**	RunNo: **79857**
Prep Date: **7/15/2021**	Analysis Date: **7/17/2021**	SeqNo: **2809956** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.4	80	120			
Toluene	0.88	0.050	1.000	0	88.1	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2107732**

28-Jul-21

Client: GHD Midland

Project: Hornbaker BA Battery

Sample ID: **mb-61362** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **61362** RunNo: **79883**

Prep Date: **7/15/2021** Analysis Date: **7/19/2021** SeqNo: **2811008** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	70	130			

Sample ID: **LCS-61362** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **61362** RunNo: **79883**

Prep Date: **7/15/2021** Analysis Date: **7/19/2021** SeqNo: **2811009** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.0	80	120			
Toluene	0.92	0.050	1.000	0	91.6	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.0	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: **2107732-019ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **TP28-12** Batch ID: **61362** RunNo: **79883**

Prep Date: **7/15/2021** Analysis Date: **7/19/2021** SeqNo: **2811012** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.025	0.9833	0	81.2	80	120			
Toluene	0.84	0.049	0.9833	0	85.4	80	120			
Ethylbenzene	0.85	0.049	0.9833	0	86.5	80	120			
Xylenes, Total	2.6	0.098	2.950	0	87.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		0.9833		102	70	130			

Sample ID: **2107732-019amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **TP28-12** Batch ID: **61362** RunNo: **79883**

Prep Date: **7/15/2021** Analysis Date: **7/19/2021** SeqNo: **2811013** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	82.5	80	120	3.27	20	
Toluene	0.87	0.050	1.000	0	87.2	80	120	3.79	20	
Ethylbenzene	0.89	0.050	1.000	0	88.8	80	120	4.23	20	
Xylenes, Total	2.7	0.10	3.000	0	89.3	80	120	3.62	20	
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130	0	0	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: GHD Midland | Work Order Number: 2107732 | RcptNo: 1

Received By: Cheyenne Cason 7/15/2021 7:35:00 AM

Completed By: Sean Livingston 7/15/2021 9:10:13 AM

Reviewed By: JM 7/15/21

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
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: SPA 7.15.20

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.5	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address: 324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

email or Fax#: Becky.Haskell@ghd.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush 5 Day

Project Name: Hornbaker BA Battery

Project #: 11228980

Project Manager:
Becky Haskell
Tom Larson

Sampler: ~~Zach Comino~~ Heath Boyd

On Ice: X Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 4.5 -0 = 4.5

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2107732	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride Method 300
7/14/21	750	S	TP17 - 8	4oz. Jar 1	N/A	- 001	X	X									X
"	800	"	TP17 - 14	"	"	- 002	X	X									X
"	815	"	TP17 - 20	"	"	- 003	X	X									X
"	900	"	TP19 - 10	"	"	- 004	X	X									X
"	910	"	TP19 - 14	"	"	- 005	X	X									X
"	935	"	TP23 - 12	"	"	- 006	X	X									X
"	945	"	TP23 - 14	"	"	- 007	X	X									X
"	1010	"	TP26 - 8	"	"	- 008	X	X									X
"	1030	"	TP26 - 16	"	"	- 009	X	X									X
"	1040	"	TP26 - 20	"	"	- 010	X	X									X
"	1115	"	TP27 - 4	"	"	- 011	X	X									X
X	1130	X	TP27 - 11	X	X	- 012	X	X									X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
7/14/21	1640				7/14/21	1640
7/14/21	1900				7/15/21	0735

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com: Along with Becky Haskell listed above.
Direct Bill to EOG Chase Settle

Chain-of-Custody Record

Client: GHD

Mailing Address:

324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

email or Fax#: Becky.Haskell@ghd.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other_____

☐ EDD (Type) _____

Turn-Around Time: 5 days

☑ Standard ☐ Rush_____

Project Name: Hornbaker BA Battery

Project #: 11228980

Project Manager:

Becky Haskell

Tom Larson

Sampler: ~~Zach Comino~~ Heath Boyd

On Ice: X Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 4.5-0=4.5

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride Method 300
7/14/21	1150	S	TP27-16	4oz. Jar 1	N/A	013	X	X									X
"	1315	"	TP22-4	"	"	014	X	X									X
	1320		TP22-7			015	X	X									X
	1330		TP22-14			016	X	X									X
	1345		TP22-20			017	X	X									X
	1425		TP28-8			018	X	X									X
	1430		TP28-12			019	X	X									X
"	1445	"	TP28-20	"	"	020	X	X									X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
7/14/21	1640				7/14/21	1640
7/14/21	1900		Ice Courier		7/15/21	0735

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com: Along with Becky Haskell listed above.
Direct Bill to EOG Chase Settle

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 22, 2021

Tom Larson
GHD Midland
2135 S Loop 250 W
Midland, TX 79703
TEL: (432) 686-0086
FAX:

RE: Hornbaker BA Battery OrderNo.: 2107835

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 7/16/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order: **2107835**
Date Reported: **7/22/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Lab Order:** 2107835
Project: Hornbaker BA Battery

Lab ID: 2107835-001 **Collection Date:** 7/15/2021 8:00:00 AM
Client Sample ID: TP29-S **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	7/22/2021 5:07:24 AM	61462
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/20/2021 6:28:15 PM	61405
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/20/2021 6:28:15 PM	61405
Surr: DNOP	82.5	70-130		%Rec	1	7/20/2021 6:28:15 PM	61405
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/19/2021 11:57:58 PM	61386
Surr: BFB	94.9	70-130		%Rec	1	7/19/2021 11:57:58 PM	61386
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/19/2021 11:57:58 PM	61386
Toluene	ND	0.050		mg/Kg	1	7/19/2021 11:57:58 PM	61386
Ethylbenzene	ND	0.050		mg/Kg	1	7/19/2021 11:57:58 PM	61386
Xylenes, Total	ND	0.10		mg/Kg	1	7/19/2021 11:57:58 PM	61386
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	7/19/2021 11:57:58 PM	61386

Lab ID: 2107835-002 **Collection Date:** 7/15/2021 8:15:00 AM
Client Sample ID: TP29-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	7/22/2021 5:19:49 AM	61462
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/20/2021 6:40:18 PM	61405
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/20/2021 6:40:18 PM	61405
Surr: DNOP	103	70-130		%Rec	1	7/20/2021 6:40:18 PM	61405
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/20/2021 1:32:02 AM	61386
Surr: BFB	94.6	70-130		%Rec	1	7/20/2021 1:32:02 AM	61386
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/20/2021 1:32:02 AM	61386
Toluene	ND	0.049		mg/Kg	1	7/20/2021 1:32:02 AM	61386
Ethylbenzene	ND	0.049		mg/Kg	1	7/20/2021 1:32:02 AM	61386
Xylenes, Total	ND	0.098		mg/Kg	1	7/20/2021 1:32:02 AM	61386
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	7/20/2021 1:32:02 AM	61386

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

Qualifiers:

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

Analytical Report
Lab Order: **2107835**
Date Reported: **7/22/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Lab Order:** 2107835
Project: Hornbaker BA Battery

Lab ID: 2107835-003 **Collection Date:** 7/15/2021 8:30:00 AM
Client Sample ID: TP30-S **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	7/22/2021 5:32:13 AM	61462
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/20/2021 6:52:28 PM	61405
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/20/2021 6:52:28 PM	61405
Surr: DNOP	99.5	70-130		%Rec	1	7/20/2021 6:52:28 PM	61405
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/20/2021 1:55:39 AM	61386
Surr: BFB	94.8	70-130		%Rec	1	7/20/2021 1:55:39 AM	61386
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/20/2021 1:55:39 AM	61386
Toluene	ND	0.049		mg/Kg	1	7/20/2021 1:55:39 AM	61386
Ethylbenzene	ND	0.049		mg/Kg	1	7/20/2021 1:55:39 AM	61386
Xylenes, Total	ND	0.097		mg/Kg	1	7/20/2021 1:55:39 AM	61386
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	7/20/2021 1:55:39 AM	61386

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

Qualifiers:

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

Analytical Report
Lab Order: **2107835**
Date Reported: **7/22/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Lab Order:** 2107835
Project: Hornbaker BA Battery

Lab ID: 2107835-004 **Collection Date:** 7/15/2021 8:35:00 AM
Client Sample ID: TP30-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	ND	60		mg/Kg	20	7/22/2021 5:44:38 AM	61462
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/20/2021 7:16:08 PM	61405
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/20/2021 7:16:08 PM	61405
Surr: DNOP	88.2	70-130		%Rec	1	7/20/2021 7:16:08 PM	61405
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/20/2021 2:19:10 AM	61386
Surr: BFB	94.5	70-130		%Rec	1	7/20/2021 2:19:10 AM	61386
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/20/2021 2:19:10 AM	61386
Toluene	ND	0.050		mg/Kg	1	7/20/2021 2:19:10 AM	61386
Ethylbenzene	ND	0.050		mg/Kg	1	7/20/2021 2:19:10 AM	61386
Xylenes, Total	ND	0.10		mg/Kg	1	7/20/2021 2:19:10 AM	61386
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	7/20/2021 2:19:10 AM	61386

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2107835**
23-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **MB-61462**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **61462**	RunNo: **79956**							
Prep Date: **7/21/2021**	Analysis Date: **7/22/2021**	SeqNo: **2813957**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-61462**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **61462**	RunNo: **79956**							
Prep Date: **7/21/2021**	Analysis Date: **7/22/2021**	SeqNo: **2813958**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.4	90	110			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2107835**
23-Jul-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **MB-61405**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **61405**	RunNo: **79945**
Prep Date: **7/19/2021**	Analysis Date: **7/20/2021**	SeqNo: **2813316** 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		101	70	130			

Sample ID: **LCS-61405**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **61405**	RunNo: **79945**
Prep Date: **7/19/2021**	Analysis Date: **7/20/2021**	SeqNo: **2813318** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.2	68.9	141			
Surr: DNOP	4.6		5.000		91.9	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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2107835**

23-Jul-21

Client: GHD Midland

Project: Hornbaker BA Battery

Sample ID: **mb-61362**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **61362**	RunNo: **79883**
Prep Date: **7/15/2021**	Analysis Date: **7/19/2021**	SeqNo: **2810954** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	970		1000		96.5	70	130			

Sample ID: **lcs-61362**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **61362**	RunNo: **79883**
Prep Date: **7/15/2021**	Analysis Date: **7/19/2021**	SeqNo: **2810955** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		107	70	130			

Sample ID: **mb-61386**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **61386**	RunNo: **79883**
Prep Date: **7/17/2021**	Analysis Date: **7/20/2021**	SeqNo: **2810968** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		94.1	70	130			

Sample ID: **lcs-61386**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **61386**	RunNo: **79883**
Prep Date: **7/17/2021**	Analysis Date: **7/19/2021**	SeqNo: **2810969** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.5	78.6	131			
Surr: BFB	1100		1000		110	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2107835**

23-Jul-21

Client: GHD Midland

Project: Hornbaker BA Battery

Sample ID: **mb-61362**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **61362**	RunNo: **79883**							
Prep Date: **7/15/2021**	Analysis Date: **7/19/2021**	SeqNo: **2811008**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	70	130			

Sample ID: **LCS-61362**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **61362**	RunNo: **79883**							
Prep Date: **7/15/2021**	Analysis Date: **7/19/2021**	SeqNo: **2811009**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: **mb-61386**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **PBS**	Batch ID: **61386**	RunNo: **79883**							
Prep Date: **7/17/2021**	Analysis Date: **7/20/2021**	SeqNo: **2811025**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	70	130			

Sample ID: **LCS-61386**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **LCSS**	Batch ID: **61386**	RunNo: **79883**							
Prep Date: **7/17/2021**	Analysis Date: **7/19/2021**	SeqNo: **2811026**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.7	80	120			
Toluene	0.98	0.050	1.000	0	97.8	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **GHD Midland** Work Order Number: **2107835** RcptNo: 1

Received By: **Cheyenne Cason** **7/16/2021 7:40:00 AM**

Completed By: **Isaiah Ortiz** **7/16/2021 9:11:22 AM**

Reviewed By: JR 7/16/21

Chain of Custody

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

Log In

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

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

Adjusted?

Checked by: TMC 7.16.21

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.4	Good	Not Present			

Chain-of-Custody Record

Client: GHD

Mailing Address: 324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

email or Fax#: Becky.Haskell@ghd.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time: 5 Days
☑ Standard ☐ Rush

Project Name: Hornbaker BA Battery

Project #: 112128980

Project Manager:
Becky Haskell
Tom Larson

Sampler: ~~Zach Comino~~ Heath Boyd

On Ice: X Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 3.4-0.2=3.4

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2107835	BTEX / MTBE / TMBs (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride Method 300
7/15/21	800	S	TP29-S	5oz 4oz 1	N/A	- 001	X	X									X
"	815	"	TP29-2	"	"	- 002	X	X									X
"	830	"	TP30-S	"	"	- 003	X	X									X
X	835	X	TP30-2	X	X	- 004	X	X									X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
7/15/21	1220				7/15/21	1220
7/15/21	1900			Courier	7/16/21	0740

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com: Along with Becky Haskell listed above.
Direct Bill to EOG Chase Settle

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

December 21, 2021

Becky Haskell
GHD Midland
2135 S Loop 250 W
Midland, TX 79703
TEL: (432) 686-0086
FAX:

RE: Hornbaker BA Battery OrderNo.: 2112741

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 36 sample(s) on 12/10/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** SB-4-5
Project: Hornbaker BA Battery **Collection Date:** 12/8/2021 8:05:00 AM
Lab ID: 2112741-001 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	2000	60		mg/Kg	20	12/16/2021 12:40:55 AM	64545
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	290	95		mg/Kg	10	12/14/2021 9:57:28 AM	64450
Motor Oil Range Organics (MRO)	480	470		mg/Kg	10	12/14/2021 9:57:28 AM	64450
Surr: DNOP	0	70-130	S	%Rec	10	12/14/2021 9:57:28 AM	64450
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	12/13/2021 2:31:34 PM	64437
Surr: BFB	101	70-130		%Rec	5	12/13/2021 2:31:34 PM	64437
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.11		mg/Kg	5	12/13/2021 2:31:34 PM	64437
Toluene	ND	0.23		mg/Kg	5	12/13/2021 2:31:34 PM	64437
Ethylbenzene	ND	0.23		mg/Kg	5	12/13/2021 2:31:34 PM	64437
Xylenes, Total	ND	0.46		mg/Kg	5	12/13/2021 2:31:34 PM	64437
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	5	12/13/2021 2:31:34 PM	64437

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-4-10
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 8:10:00 AM
Lab ID: 2112741-002 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	2900	150		mg/Kg	50	12/17/2021 1:37:59 AM	A84591
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	97	9.8		mg/Kg	1	12/14/2021 10:09:29 AM	64450
Motor Oil Range Organics (MRO)	66	49		mg/Kg	1	12/14/2021 10:09:29 AM	64450
Surr: DNOP	89.8	70-130		%Rec	1	12/14/2021 10:09:29 AM	64450
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	12/13/2021 2:55:15 PM	64437
Surr: BFB	103	70-130		%Rec	5	12/13/2021 2:55:15 PM	64437
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	12/13/2021 2:55:15 PM	64437
Toluene	ND	0.23		mg/Kg	5	12/13/2021 2:55:15 PM	64437
Ethylbenzene	ND	0.23		mg/Kg	5	12/13/2021 2:55:15 PM	64437
Xylenes, Total	ND	0.46		mg/Kg	5	12/13/2021 2:55:15 PM	64437
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	5	12/13/2021 2:55:15 PM	64437

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-4-15
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 8:15:00 AM
Lab ID: 2112741-003 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	2900	150		mg/Kg	50	12/17/2021 1:50:23 AM	A84591
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/14/2021 10:21:32 AM	64450
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/14/2021 10:21:32 AM	64450
Surr: DNOP	86.1	70-130		%Rec	1	12/14/2021 10:21:32 AM	64450
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	12/13/2021 3:42:29 PM	64437
Surr: BFB	102	70-130		%Rec	5	12/13/2021 3:42:29 PM	64437
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	12/13/2021 3:42:29 PM	64437
Toluene	ND	0.24		mg/Kg	5	12/13/2021 3:42:29 PM	64437
Ethylbenzene	ND	0.24		mg/Kg	5	12/13/2021 3:42:29 PM	64437
Xylenes, Total	ND	0.48		mg/Kg	5	12/13/2021 3:42:29 PM	64437
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	5	12/13/2021 3:42:29 PM	64437

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-4-20
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 8:20:00 AM
Lab ID: 2112741-004 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	2600	150		mg/Kg	50	12/17/2021 2:02:47 AM	A84591
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	87	9.7		mg/Kg	1	12/14/2021 10:33:39 AM	64450
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/14/2021 10:33:39 AM	64450
Surr: DNOP	86.9	70-130		%Rec	1	12/14/2021 10:33:39 AM	64450
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	12/13/2021 5:16:52 PM	64437
Surr: BFB	101	70-130		%Rec	5	12/13/2021 5:16:52 PM	64437
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	12/13/2021 5:16:52 PM	64437
Toluene	ND	0.23		mg/Kg	5	12/13/2021 5:16:52 PM	64437
Ethylbenzene	ND	0.23		mg/Kg	5	12/13/2021 5:16:52 PM	64437
Xylenes, Total	ND	0.46		mg/Kg	5	12/13/2021 5:16:52 PM	64437
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	5	12/13/2021 5:16:52 PM	64437

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-4-25
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 8:25:00 AM
Lab ID: 2112741-005 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	2100	150		mg/Kg	50	12/17/2021 2:15:11 AM	A84591
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/14/2021 10:45:49 AM	64450
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/14/2021 10:45:49 AM	64450
Surr: DNOP	86.3	70-130		%Rec	1	12/14/2021 10:45:49 AM	64450
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/13/2021 5:40:20 PM	64437
Surr: BFB	102	70-130		%Rec	1	12/13/2021 5:40:20 PM	64437
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/13/2021 5:40:20 PM	64437
Toluene	ND	0.048		mg/Kg	1	12/13/2021 5:40:20 PM	64437
Ethylbenzene	ND	0.048		mg/Kg	1	12/13/2021 5:40:20 PM	64437
Xylenes, Total	ND	0.097		mg/Kg	1	12/13/2021 5:40:20 PM	64437
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/13/2021 5:40:20 PM	64437

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-4-30
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 8:30:00 AM
Lab ID: 2112741-006 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	880	60		mg/Kg	20	12/16/2021 2:32:34 AM	64545
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/14/2021 10:57:41 AM	64450
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/14/2021 10:57:41 AM	64450
Surr: DNOP	88.3	70-130		%Rec	1	12/14/2021 10:57:41 AM	64450
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/13/2021 6:03:53 PM	64437
Surr: BFB	104	70-130		%Rec	1	12/13/2021 6:03:53 PM	64437
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	12/13/2021 6:03:53 PM	64437
Toluene	ND	0.050		mg/Kg	1	12/13/2021 6:03:53 PM	64437
Ethylbenzene	ND	0.050		mg/Kg	1	12/13/2021 6:03:53 PM	64437
Xylenes, Total	ND	0.099		mg/Kg	1	12/13/2021 6:03:53 PM	64437
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	12/13/2021 6:03:53 PM	64437

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-4-35
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 8:35:00 AM
Lab ID: 2112741-007 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	340	59		mg/Kg	20	12/16/2021 2:44:58 AM	64545
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/14/2021 11:09:11 AM	64450
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/14/2021 11:09:11 AM	64450
Surr: DNOP	85.5	70-130		%Rec	1	12/14/2021 11:09:11 AM	64450
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/13/2021 6:27:22 PM	64437
Surr: BFB	103	70-130		%Rec	1	12/13/2021 6:27:22 PM	64437
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	12/13/2021 6:27:22 PM	64437
Toluene	ND	0.049		mg/Kg	1	12/13/2021 6:27:22 PM	64437
Ethylbenzene	ND	0.049		mg/Kg	1	12/13/2021 6:27:22 PM	64437
Xylenes, Total	ND	0.098		mg/Kg	1	12/13/2021 6:27:22 PM	64437
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/13/2021 6:27:22 PM	64437

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-4-40
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 8:40:00 AM
Lab ID: 2112741-008 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	150	60		mg/Kg	20	12/16/2021 2:57:22 AM	64545
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/14/2021 11:21:03 AM	64450
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/14/2021 11:21:03 AM	64450
Surr: DNOP	88.2	70-130		%Rec	1	12/14/2021 11:21:03 AM	64450
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/13/2021 6:50:46 PM	64437
Surr: BFB	101	70-130		%Rec	1	12/13/2021 6:50:46 PM	64437
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/13/2021 6:50:46 PM	64437
Toluene	ND	0.048		mg/Kg	1	12/13/2021 6:50:46 PM	64437
Ethylbenzene	ND	0.048		mg/Kg	1	12/13/2021 6:50:46 PM	64437
Xylenes, Total	ND	0.095		mg/Kg	1	12/13/2021 6:50:46 PM	64437
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	12/13/2021 6:50:46 PM	64437

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-2-5
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 9:35:00 AM
Lab ID: 2112741-009 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	9500	600		mg/Kg	200	12/17/2021 2:27:36 AM	A84591
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/14/2021 11:33:28 AM	64450
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/14/2021 11:33:28 AM	64450
Surr: DNOP	94.4	70-130		%Rec	1	12/14/2021 11:33:28 AM	64450
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/13/2021 7:14:16 PM	64437
Surr: BFB	104	70-130		%Rec	1	12/13/2021 7:14:16 PM	64437
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	12/13/2021 7:14:16 PM	64437
Toluene	ND	0.047		mg/Kg	1	12/13/2021 7:14:16 PM	64437
Ethylbenzene	ND	0.047		mg/Kg	1	12/13/2021 7:14:16 PM	64437
Xylenes, Total	ND	0.093		mg/Kg	1	12/13/2021 7:14:16 PM	64437
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	12/13/2021 7:14:16 PM	64437

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-2-10
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 9:40:00 AM
Lab ID: 2112741-010 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	11000	610		mg/Kg	200	12/17/2021 2:40:00 AM	A84591
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/14/2021 11:45:01 AM	64450
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/14/2021 11:45:01 AM	64450
Surr: DNOP	88.0	70-130		%Rec	1	12/14/2021 11:45:01 AM	64450
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/13/2021 7:37:31 PM	64437
Surr: BFB	106	70-130		%Rec	1	12/13/2021 7:37:31 PM	64437
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	12/13/2021 7:37:31 PM	64437
Toluene	ND	0.047		mg/Kg	1	12/13/2021 7:37:31 PM	64437
Ethylbenzene	ND	0.047		mg/Kg	1	12/13/2021 7:37:31 PM	64437
Xylenes, Total	ND	0.093		mg/Kg	1	12/13/2021 7:37:31 PM	64437
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	12/13/2021 7:37:31 PM	64437

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-2-15
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 9:45:00 AM
Lab ID: 2112741-011 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	7000	300		mg/Kg	100	12/17/2021 7:56:33 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/14/2021 11:56:48 AM	64450
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/14/2021 11:56:48 AM	64450
Surr: DNOP	88.5	70-130		%Rec	1	12/14/2021 11:56:48 AM	64450
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/13/2021 8:00:59 PM	64437
Surr: BFB	102	70-130		%Rec	1	12/13/2021 8:00:59 PM	64437
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/13/2021 8:00:59 PM	64437
Toluene	ND	0.048		mg/Kg	1	12/13/2021 8:00:59 PM	64437
Ethylbenzene	ND	0.048		mg/Kg	1	12/13/2021 8:00:59 PM	64437
Xylenes, Total	ND	0.096		mg/Kg	1	12/13/2021 8:00:59 PM	64437
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/13/2021 8:00:59 PM	64437

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-2-20
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 9:50:00 AM
Lab ID: 2112741-012 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	7000	300		mg/Kg	100	12/17/2021 8:08:58 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/14/2021 12:08:52 PM	64450
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/14/2021 12:08:52 PM	64450
Surr: DNOP	91.5	70-130		%Rec	1	12/14/2021 12:08:52 PM	64450
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/13/2021 8:24:27 PM	64437
Surr: BFB	103	70-130		%Rec	1	12/13/2021 8:24:27 PM	64437
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/13/2021 8:24:27 PM	64437
Toluene	ND	0.047		mg/Kg	1	12/13/2021 8:24:27 PM	64437
Ethylbenzene	ND	0.047		mg/Kg	1	12/13/2021 8:24:27 PM	64437
Xylenes, Total	ND	0.094		mg/Kg	1	12/13/2021 8:24:27 PM	64437
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	12/13/2021 8:24:27 PM	64437

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** SB-2-25
Project: Hornbaker BA Battery **Collection Date:** 12/8/2021 9:55:00 AM
Lab ID: 2112741-013 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	8500	300		mg/Kg	100	12/17/2021 8:21:22 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/14/2021 12:20:33 PM	64450
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/14/2021 12:20:33 PM	64450
Surr: DNOP	90.4	70-130		%Rec	1	12/14/2021 12:20:33 PM	64450
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/13/2021 8:47:56 PM	64437
Surr: BFB	104	70-130		%Rec	1	12/13/2021 8:47:56 PM	64437
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	12/13/2021 8:47:56 PM	64437
Toluene	ND	0.046		mg/Kg	1	12/13/2021 8:47:56 PM	64437
Ethylbenzene	ND	0.046		mg/Kg	1	12/13/2021 8:47:56 PM	64437
Xylenes, Total	ND	0.092		mg/Kg	1	12/13/2021 8:47:56 PM	64437
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	12/13/2021 8:47:56 PM	64437

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-2-30
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 10:00:00 AM
Lab ID: 2112741-014 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	5100	300		mg/Kg	100	12/17/2021 8:33:46 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	12/14/2021 4:57:08 PM	64482
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/14/2021 4:57:08 PM	64482
Surr: DNOP	94.2	70-130		%Rec	1	12/14/2021 4:57:08 PM	64482
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/14/2021 11:53:23 AM	64464
Surr: BFB	100	70-130		%Rec	1	12/14/2021 11:53:23 AM	64464
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	12/14/2021 11:53:23 AM	64464
Toluene	ND	0.047		mg/Kg	1	12/14/2021 11:53:23 AM	64464
Ethylbenzene	ND	0.047		mg/Kg	1	12/14/2021 11:53:23 AM	64464
Xylenes, Total	ND	0.093		mg/Kg	1	12/14/2021 11:53:23 AM	64464
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	12/14/2021 11:53:23 AM	64464

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-2-35
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 10:05:00 AM
Lab ID: 2112741-015 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	2900	150		mg/Kg	50	12/17/2021 8:46:10 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/14/2021 5:21:29 PM	64482
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/14/2021 5:21:29 PM	64482
Surr: DNOP	94.5	70-130		%Rec	1	12/14/2021 5:21:29 PM	64482
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/14/2021 1:04:02 PM	64464
Surr: BFB	106	70-130		%Rec	1	12/14/2021 1:04:02 PM	64464
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	12/14/2021 1:04:02 PM	64464
Toluene	ND	0.046		mg/Kg	1	12/14/2021 1:04:02 PM	64464
Ethylbenzene	ND	0.046		mg/Kg	1	12/14/2021 1:04:02 PM	64464
Xylenes, Total	ND	0.092		mg/Kg	1	12/14/2021 1:04:02 PM	64464
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	12/14/2021 1:04:02 PM	64464

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-2-40
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 10:10:00 AM
Lab ID: 2112741-016 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	4900	150		mg/Kg	50	12/17/2021 8:58:35 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/14/2021 5:45:42 PM	64482
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/14/2021 5:45:42 PM	64482
Surr: DNOP	94.5	70-130		%Rec	1	12/14/2021 5:45:42 PM	64482
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/14/2021 2:15:00 PM	64464
Surr: BFB	103	70-130		%Rec	1	12/14/2021 2:15:00 PM	64464
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/14/2021 2:15:00 PM	64464
Toluene	ND	0.048		mg/Kg	1	12/14/2021 2:15:00 PM	64464
Ethylbenzene	ND	0.048		mg/Kg	1	12/14/2021 2:15:00 PM	64464
Xylenes, Total	ND	0.096		mg/Kg	1	12/14/2021 2:15:00 PM	64464
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/14/2021 2:15:00 PM	64464

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-2-45
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 10:15:00 AM
Lab ID: 2112741-017 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	3600	150		mg/Kg	50	12/17/2021 9:10:59 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	12/14/2021 6:10:05 PM	64482
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/14/2021 6:10:05 PM	64482
Surr: DNOP	94.4	70-130		%Rec	1	12/14/2021 6:10:05 PM	64482
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/14/2021 2:38:42 PM	64464
Surr: BFB	104	70-130		%Rec	1	12/14/2021 2:38:42 PM	64464
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/14/2021 2:38:42 PM	64464
Toluene	ND	0.047		mg/Kg	1	12/14/2021 2:38:42 PM	64464
Ethylbenzene	ND	0.047		mg/Kg	1	12/14/2021 2:38:42 PM	64464
Xylenes, Total	ND	0.094		mg/Kg	1	12/14/2021 2:38:42 PM	64464
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/14/2021 2:38:42 PM	64464

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-2-50
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 10:20:00 AM
Lab ID: 2112741-018 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	3000	150		mg/Kg	50	12/17/2021 9:23:23 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/14/2021 6:34:17 PM	64482
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/14/2021 6:34:17 PM	64482
Surr: DNOP	96.4	70-130		%Rec	1	12/14/2021 6:34:17 PM	64482
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/14/2021 3:02:14 PM	64464
Surr: BFB	104	70-130		%Rec	1	12/14/2021 3:02:14 PM	64464
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	12/14/2021 3:02:14 PM	64464
Toluene	ND	0.050		mg/Kg	1	12/14/2021 3:02:14 PM	64464
Ethylbenzene	ND	0.050		mg/Kg	1	12/14/2021 3:02:14 PM	64464
Xylenes, Total	ND	0.10		mg/Kg	1	12/14/2021 3:02:14 PM	64464
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	12/14/2021 3:02:14 PM	64464

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** SB-2-55
Project: Hornbaker BA Battery **Collection Date:** 12/8/2021 10:25:00 AM
Lab ID: 2112741-019 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	5100	300		mg/Kg	100	12/17/2021 9:35:48 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/14/2021 6:58:41 PM	64482
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/14/2021 6:58:41 PM	64482
Surr: DNOP	91.6	70-130		%Rec	1	12/14/2021 6:58:41 PM	64482
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/14/2021 3:25:47 PM	64464
Surr: BFB	102	70-130		%Rec	1	12/14/2021 3:25:47 PM	64464
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/14/2021 3:25:47 PM	64464
Toluene	ND	0.048		mg/Kg	1	12/14/2021 3:25:47 PM	64464
Ethylbenzene	ND	0.048		mg/Kg	1	12/14/2021 3:25:47 PM	64464
Xylenes, Total	ND	0.096		mg/Kg	1	12/14/2021 3:25:47 PM	64464
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	12/14/2021 3:25:47 PM	64464

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-2-60
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 10:30:00 AM
Lab ID: 2112741-020 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	6800	300		mg/Kg	100	12/17/2021 9:48:13 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	12/14/2021 7:22:54 PM	64482
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/14/2021 7:22:54 PM	64482
Surr: DNOP	97.6	70-130		%Rec	1	12/14/2021 7:22:54 PM	64482
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/14/2021 3:49:20 PM	64464
Surr: BFB	102	70-130		%Rec	1	12/14/2021 3:49:20 PM	64464
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/14/2021 3:49:20 PM	64464
Toluene	ND	0.047		mg/Kg	1	12/14/2021 3:49:20 PM	64464
Ethylbenzene	ND	0.047		mg/Kg	1	12/14/2021 3:49:20 PM	64464
Xylenes, Total	ND	0.095		mg/Kg	1	12/14/2021 3:49:20 PM	64464
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	12/14/2021 3:49:20 PM	64464

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-2-70
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 10:35:00 AM
Lab ID: 2112741-021 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	2400	150		mg/Kg	50	12/17/2021 10:25:26 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/14/2021 7:47:10 PM	64482
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/14/2021 7:47:10 PM	64482
Surr: DNOP	98.4	70-130		%Rec	1	12/14/2021 7:47:10 PM	64482
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/14/2021 4:12:50 PM	64464
Surr: BFB	105	70-130		%Rec	1	12/14/2021 4:12:50 PM	64464
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/14/2021 4:12:50 PM	64464
Toluene	ND	0.048		mg/Kg	1	12/14/2021 4:12:50 PM	64464
Ethylbenzene	ND	0.048		mg/Kg	1	12/14/2021 4:12:50 PM	64464
Xylenes, Total	ND	0.096		mg/Kg	1	12/14/2021 4:12:50 PM	64464
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/14/2021 4:12:50 PM	64464

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-2-80
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 12:30:00 PM
Lab ID: 2112741-022 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	530	60		mg/Kg	20	12/16/2021 5:41:36 PM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/14/2021 8:11:21 PM	64482
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/14/2021 8:11:21 PM	64482
Surr: DNOP	104	70-130		%Rec	1	12/14/2021 8:11:21 PM	64482
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/14/2021 5:47:05 PM	64464
Surr: BFB	101	70-130		%Rec	1	12/14/2021 5:47:05 PM	64464
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	12/14/2021 5:47:05 PM	64464
Toluene	ND	0.047		mg/Kg	1	12/14/2021 5:47:05 PM	64464
Ethylbenzene	ND	0.047		mg/Kg	1	12/14/2021 5:47:05 PM	64464
Xylenes, Total	ND	0.093		mg/Kg	1	12/14/2021 5:47:05 PM	64464
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	12/14/2021 5:47:05 PM	64464

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-2-85
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 1:30:00 PM
Lab ID: 2112741-023 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	59		mg/Kg	20	12/16/2021 5:53:57 PM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	12/14/2021 8:35:46 PM	64482
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/14/2021 8:35:46 PM	64482
Surr: DNOP	91.4	70-130		%Rec	1	12/14/2021 8:35:46 PM	64482
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/14/2021 6:10:39 PM	64464
Surr: BFB	104	70-130		%Rec	1	12/14/2021 6:10:39 PM	64464
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/14/2021 6:10:39 PM	64464
Toluene	ND	0.047		mg/Kg	1	12/14/2021 6:10:39 PM	64464
Ethylbenzene	ND	0.047		mg/Kg	1	12/14/2021 6:10:39 PM	64464
Xylenes, Total	ND	0.094		mg/Kg	1	12/14/2021 6:10:39 PM	64464
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	12/14/2021 6:10:39 PM	64464

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1-5
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 1:45:00 PM
Lab ID: 2112741-024 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	5900	300		mg/Kg	100	12/17/2021 10:37:51 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	12	8.7		mg/Kg	1	12/14/2021 8:59:56 PM	64482
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/14/2021 8:59:56 PM	64482
Surr: DNOP	95.3	70-130		%Rec	1	12/14/2021 8:59:56 PM	64482
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/14/2021 6:34:12 PM	64464
Surr: BFB	102	70-130		%Rec	1	12/14/2021 6:34:12 PM	64464
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/14/2021 6:34:12 PM	64464
Toluene	ND	0.048		mg/Kg	1	12/14/2021 6:34:12 PM	64464
Ethylbenzene	ND	0.048		mg/Kg	1	12/14/2021 6:34:12 PM	64464
Xylenes, Total	ND	0.097		mg/Kg	1	12/14/2021 6:34:12 PM	64464
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/14/2021 6:34:12 PM	64464

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1-10
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 1:50:00 PM
Lab ID: 2112741-025 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	4600	150		mg/Kg	50	12/17/2021 10:50:15 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/14/2021 9:24:21 PM	64482
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/14/2021 9:24:21 PM	64482
Surr: DNOP	97.0	70-130		%Rec	1	12/14/2021 9:24:21 PM	64482
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/14/2021 6:57:32 PM	64464
Surr: BFB	104	70-130		%Rec	1	12/14/2021 6:57:32 PM	64464
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/14/2021 6:57:32 PM	64464
Toluene	ND	0.049		mg/Kg	1	12/14/2021 6:57:32 PM	64464
Ethylbenzene	ND	0.049		mg/Kg	1	12/14/2021 6:57:32 PM	64464
Xylenes, Total	ND	0.098		mg/Kg	1	12/14/2021 6:57:32 PM	64464
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/14/2021 6:57:32 PM	64464

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1-15
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 1:55:00 PM
Lab ID: 2112741-026 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	6300	300		mg/Kg	100	12/17/2021 11:02:40 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	12/14/2021 9:48:59 PM	64482
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/14/2021 9:48:59 PM	64482
Surr: DNOP	95.7	70-130		%Rec	1	12/14/2021 9:48:59 PM	64482
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/14/2021 7:20:48 PM	64464
Surr: BFB	104	70-130		%Rec	1	12/14/2021 7:20:48 PM	64464
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/14/2021 7:20:48 PM	64464
Toluene	ND	0.048		mg/Kg	1	12/14/2021 7:20:48 PM	64464
Ethylbenzene	ND	0.048		mg/Kg	1	12/14/2021 7:20:48 PM	64464
Xylenes, Total	ND	0.096		mg/Kg	1	12/14/2021 7:20:48 PM	64464
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	12/14/2021 7:20:48 PM	64464

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** SB-1-20
Project: Hornbaker BA Battery **Collection Date:** 12/8/2021 2:00:00 PM
Lab ID: 2112741-027 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	5700	150		mg/Kg	50	12/17/2021 11:15:04 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	11	9.3		mg/Kg	1	12/14/2021 10:13:16 PM	64482
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/14/2021 10:13:16 PM	64482
Surr: DNOP	103	70-130		%Rec	1	12/14/2021 10:13:16 PM	64482
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/14/2021 7:44:17 PM	64464
Surr: BFB	103	70-130		%Rec	1	12/14/2021 7:44:17 PM	64464
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/14/2021 7:44:17 PM	64464
Toluene	ND	0.048		mg/Kg	1	12/14/2021 7:44:17 PM	64464
Ethylbenzene	ND	0.048		mg/Kg	1	12/14/2021 7:44:17 PM	64464
Xylenes, Total	ND	0.096		mg/Kg	1	12/14/2021 7:44:17 PM	64464
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	12/14/2021 7:44:17 PM	64464

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** SB-1-25
Project: Hornbaker BA Battery **Collection Date:** 12/8/2021 2:05:00 PM
Lab ID: 2112741-028 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	9200	590		mg/Kg	200	12/17/2021 11:27:29 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/14/2021 10:37:22 PM	64482
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/14/2021 10:37:22 PM	64482
Surr: DNOP	95.2	70-130		%Rec	1	12/14/2021 10:37:22 PM	64482
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/14/2021 8:07:52 PM	64464
Surr: BFB	104	70-130		%Rec	1	12/14/2021 8:07:52 PM	64464
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	12/14/2021 8:07:52 PM	64464
Toluene	ND	0.046		mg/Kg	1	12/14/2021 8:07:52 PM	64464
Ethylbenzene	ND	0.046		mg/Kg	1	12/14/2021 8:07:52 PM	64464
Xylenes, Total	ND	0.093		mg/Kg	1	12/14/2021 8:07:52 PM	64464
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/14/2021 8:07:52 PM	64464

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** SB-1-30
Project: Hornbaker BA Battery **Collection Date:** 12/8/2021 2:10:00 PM
Lab ID: 2112741-029 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	5400	300		mg/Kg	100	12/17/2021 11:39:53 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/14/2021 11:01:33 PM	64482
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/14/2021 11:01:33 PM	64482
Surr: DNOP	96.6	70-130		%Rec	1	12/14/2021 11:01:33 PM	64482
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/14/2021 8:31:14 PM	64464
Surr: BFB	104	70-130		%Rec	1	12/14/2021 8:31:14 PM	64464
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	12/14/2021 8:31:14 PM	64464
Toluene	ND	0.049		mg/Kg	1	12/14/2021 8:31:14 PM	64464
Ethylbenzene	ND	0.049		mg/Kg	1	12/14/2021 8:31:14 PM	64464
Xylenes, Total	ND	0.099		mg/Kg	1	12/14/2021 8:31:14 PM	64464
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	12/14/2021 8:31:14 PM	64464

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** SB-1-35
Project: Hornbaker BA Battery **Collection Date:** 12/8/2021 2:15:00 PM
Lab ID: 2112741-030 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	5100	150		mg/Kg	50	12/17/2021 11:52:18 AM	64563
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/14/2021 11:25:43 PM	64482
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/14/2021 11:25:43 PM	64482
Surr: DNOP	96.2	70-130		%Rec	1	12/14/2021 11:25:43 PM	64482
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/14/2021 8:54:46 PM	64464
Surr: BFB	104	70-130		%Rec	1	12/14/2021 8:54:46 PM	64464
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/14/2021 8:54:46 PM	64464
Toluene	ND	0.049		mg/Kg	1	12/14/2021 8:54:46 PM	64464
Ethylbenzene	ND	0.049		mg/Kg	1	12/14/2021 8:54:46 PM	64464
Xylenes, Total	ND	0.098		mg/Kg	1	12/14/2021 8:54:46 PM	64464
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	12/14/2021 8:54:46 PM	64464

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** SB-1-40
Project: Hornbaker BA Battery **Collection Date:** 12/8/2021 2:20:00 PM
Lab ID: 2112741-031 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	6800	300		mg/Kg	100	12/17/2021 12:04:42 PM	64573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/14/2021 11:49:48 PM	64482
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/14/2021 11:49:48 PM	64482
Surr: DNOP	98.8	70-130		%Rec	1	12/14/2021 11:49:48 PM	64482
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/14/2021 9:18:18 PM	64464
Surr: BFB	104	70-130		%Rec	1	12/14/2021 9:18:18 PM	64464
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/14/2021 9:18:18 PM	64464
Toluene	ND	0.048		mg/Kg	1	12/14/2021 9:18:18 PM	64464
Ethylbenzene	ND	0.048		mg/Kg	1	12/14/2021 9:18:18 PM	64464
Xylenes, Total	ND	0.097		mg/Kg	1	12/14/2021 9:18:18 PM	64464
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/14/2021 9:18:18 PM	64464

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1-45
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 2:25:00 PM
Lab ID: 2112741-032 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	7900	300		mg/Kg	100	12/17/2021 12:17:07 PM	64573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	12/15/2021 9:20:19 AM	64497
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/15/2021 9:20:19 AM	64497
Surr: DNOP	95.2	70-130		%Rec	1	12/15/2021 9:20:19 AM	64497
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/14/2021 10:05:19 PM	64464
Surr: BFB	103	70-130		%Rec	1	12/14/2021 10:05:19 PM	64464
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	12/14/2021 10:05:19 PM	64464
Toluene	ND	0.047		mg/Kg	1	12/14/2021 10:05:19 PM	64464
Ethylbenzene	ND	0.047		mg/Kg	1	12/14/2021 10:05:19 PM	64464
Xylenes, Total	ND	0.094		mg/Kg	1	12/14/2021 10:05:19 PM	64464
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	12/14/2021 10:05:19 PM	64464

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1-50
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 2:30:00 PM
Lab ID: 2112741-033 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	6500	300		mg/Kg	100	12/17/2021 1:31:36 PM	64573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	12/15/2021 9:30:49 AM	64497
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/15/2021 9:30:49 AM	64497
Surr: DNOP	95.1	70-130		%Rec	1	12/15/2021 9:30:49 AM	64497
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/14/2021 10:28:50 PM	64464
Surr: BFB	103	70-130		%Rec	1	12/14/2021 10:28:50 PM	64464
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	12/14/2021 10:28:50 PM	64464
Toluene	ND	0.047		mg/Kg	1	12/14/2021 10:28:50 PM	64464
Ethylbenzene	ND	0.047		mg/Kg	1	12/14/2021 10:28:50 PM	64464
Xylenes, Total	ND	0.094		mg/Kg	1	12/14/2021 10:28:50 PM	64464
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	12/14/2021 10:28:50 PM	64464

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1-60
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 3:30:00 PM
Lab ID: 2112741-034 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	9100	600		mg/Kg	200	12/17/2021 12:54:21 PM	64573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	12/15/2021 9:41:20 AM	64497
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/15/2021 9:41:20 AM	64497
Surr: DNOP	100	70-130		%Rec	1	12/15/2021 9:41:20 AM	64497
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/14/2021 8:18:00 PM	64467
Surr: BFB	89.1	70-130		%Rec	1	12/14/2021 8:18:00 PM	64467
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.023		mg/Kg	1	12/14/2021 8:18:00 PM	64467
Toluene	ND	0.047		mg/Kg	1	12/14/2021 8:18:00 PM	64467
Ethylbenzene	ND	0.047		mg/Kg	1	12/14/2021 8:18:00 PM	64467
Xylenes, Total	ND	0.094		mg/Kg	1	12/14/2021 8:18:00 PM	64467
Surr: 4-Bromofluorobenzene	81.6	70-130		%Rec	1	12/14/2021 8:18:00 PM	64467

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1-70
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 4:00:00 PM
Lab ID: 2112741-035 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	6000	300		mg/Kg	100	12/17/2021 1:06:46 PM	64573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	12/15/2021 9:52:23 AM	64497
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/15/2021 9:52:23 AM	64497
Surr: DNOP	90.9	70-130		%Rec	1	12/15/2021 9:52:23 AM	64497
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/14/2021 8:37:00 PM	64467
Surr: BFB	91.6	70-130		%Rec	1	12/14/2021 8:37:00 PM	64467
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.023		mg/Kg	1	12/14/2021 8:37:00 PM	64467
Toluene	ND	0.046		mg/Kg	1	12/14/2021 8:37:00 PM	64467
Ethylbenzene	ND	0.046		mg/Kg	1	12/14/2021 8:37:00 PM	64467
Xylenes, Total	ND	0.093		mg/Kg	1	12/14/2021 8:37:00 PM	64467
Surr: 4-Bromofluorobenzene	83.6	70-130		%Rec	1	12/14/2021 8:37:00 PM	64467

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

Qualifiers:

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

Analytical Report
Lab Order **2112741**
Date Reported: **12/21/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1-80
Project: Hornbaker BA Battery
Collection Date: 12/8/2021 4:30:00 PM
Lab ID: 2112741-036 **Matrix:** SOIL **Received Date:** 12/10/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	6900	300		mg/Kg	100	12/17/2021 1:19:11 PM	64573
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	20	9.6		mg/Kg	1	12/15/2021 10:02:53 AM	64497
Motor Oil Range Organics (MRO)	51	48		mg/Kg	1	12/15/2021 10:02:53 AM	64497
Surr: DNOP	92.4	70-130		%Rec	1	12/15/2021 10:02:53 AM	64497
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/14/2021 8:57:00 PM	64467
Surr: BFB	88.2	70-130		%Rec	1	12/14/2021 8:57:00 PM	64467
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	12/14/2021 8:57:00 PM	64467
Toluene	ND	0.050		mg/Kg	1	12/14/2021 8:57:00 PM	64467
Ethylbenzene	ND	0.050		mg/Kg	1	12/14/2021 8:57:00 PM	64467
Xylenes, Total	ND	0.10		mg/Kg	1	12/14/2021 8:57:00 PM	64467
Surr: 4-Bromofluorobenzene	80.6	70-130		%Rec	1	12/14/2021 8:57:00 PM	64467

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112741**
21-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **MB-64545**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **64545**	RunNo: **84574**							
Prep Date: **12/15/2021**	Analysis Date: **12/15/2021**	SeqNo: **2972997**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-64545**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **64545**	RunNo: **84574**							
Prep Date: **12/15/2021**	Analysis Date: **12/15/2021**	SeqNo: **2972998**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	96.7	90	110			

Sample ID: **MB-64563**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **64563**	RunNo: **84617**							
Prep Date: **12/16/2021**	Analysis Date: **12/16/2021**	SeqNo: **2974402**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-64563**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **64563**	RunNo: **84617**							
Prep Date: **12/16/2021**	Analysis Date: **12/16/2021**	SeqNo: **2974403**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.0	90	110			

Sample ID: **MB-64573**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **64573**	RunNo: **84617**							
Prep Date: **12/16/2021**	Analysis Date: **12/16/2021**	SeqNo: **2974432**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-64573**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **64573**	RunNo: **84617**							
Prep Date: **12/16/2021**	Analysis Date: **12/16/2021**	SeqNo: **2974433**	Units: **mg/Kg**						
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 Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112741**
21-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **LCS-64450** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **64450** RunNo: **84491**
Prep Date: **12/13/2021** Analysis Date: **12/14/2021** SeqNo: **2969644** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	101	68.9	135			
Surr: DNOP	4.8		5.000		95.2	70	130			

Sample ID: **MB-64450** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **64450** RunNo: **84493**
Prep Date: **12/13/2021** Analysis Date: **12/14/2021** SeqNo: **2970076** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.4	70	130			

Sample ID: **LCS-64478** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **64478** RunNo: **84516**
Prep Date: **12/14/2021** Analysis Date: **12/14/2021** SeqNo: **2970114** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		86.3	70	130			

Sample ID: **MB-64478** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **64478** RunNo: **84516**
Prep Date: **12/14/2021** Analysis Date: **12/14/2021** SeqNo: **2970115** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.0		10.00		90.1	70	130			

Sample ID: **2112741-014AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SB-2-30** Batch ID: **64482** RunNo: **84516**
Prep Date: **12/14/2021** Analysis Date: **12/15/2021** SeqNo: **2970804** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	8.7	43.71	0	94.7	39.3	155			
Surr: DNOP	3.8		4.371		86.4	70	130			

Sample ID: **2112741-014AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SB-2-30** Batch ID: **64482** RunNo: **84516**
Prep Date: **12/14/2021** Analysis Date: **12/15/2021** SeqNo: **2970805** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.3	46.64	0	95.7	39.3	155	7.50	23.4	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112741**
21-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **2112741-014AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **SB-2-30**	Batch ID: **64482**	RunNo: **84516**							
Prep Date: **12/14/2021**	Analysis Date: **12/15/2021**	SeqNo: **2970805**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		4.664		85.8	70	130	0	0	

Sample ID: **LCS-64482**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **64482**	RunNo: **84516**							
Prep Date: **12/14/2021**	Analysis Date: **12/14/2021**	SeqNo: **2970827**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.0	68.9	135			
Surr: DNOP	4.6		5.000		92.5	70	130			

Sample ID: **MB-64482**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **64482**	RunNo: **84516**							
Prep Date: **12/14/2021**	Analysis Date: **12/14/2021**	SeqNo: **2970828**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		96.9	70	130			

Sample ID: **LCS-64497**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **64497**	RunNo: **84537**							
Prep Date: **12/14/2021**	Analysis Date: **12/15/2021**	SeqNo: **2970917**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.0	68.9	135			
Surr: DNOP	4.6		5.000		92.8	70	130			

Sample ID: **MB-64497**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **64497**	RunNo: **84537**							
Prep Date: **12/14/2021**	Analysis Date: **12/15/2021**	SeqNo: **2970919**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		98.6	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112741**
21-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **mb-64437** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **64437** RunNo: **84489**
Prep Date: **12/10/2021** Analysis Date: **12/13/2021** SeqNo: **2969095** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	70	130			

Sample ID: **lcs-64437** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **64437** RunNo: **84489**
Prep Date: **12/10/2021** Analysis Date: **12/13/2021** SeqNo: **2969096** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.6	78.6	131			
Surr: BFB	1100		1000		113	70	130			

Sample ID: **MB** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **R84502** RunNo: **84502**
Prep Date: Analysis Date: **12/14/2021** SeqNo: **2969459** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		105	70	130			

Sample ID: **2.5ug gro lcs** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **R84502** RunNo: **84502**
Prep Date: Analysis Date: **12/14/2021** SeqNo: **2969460** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1200		1000		118	70	130			

Sample ID: **mb-64467** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **64467** RunNo: **84502**
Prep Date: **12/13/2021** Analysis Date: **12/14/2021** SeqNo: **2970567** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		89.8	70	130			

Sample ID: **lcs-64467** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **64467** RunNo: **84502**
Prep Date: **12/13/2021** Analysis Date: **12/14/2021** SeqNo: **2970568** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	78.6	131			
Surr: BFB	1100		1000		106	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112741**
21-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **mb-64464**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **64464**	RunNo: **84531**							
Prep Date: **12/13/2021**	Analysis Date: **12/14/2021**	SeqNo: **2970677**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		103	70	130			

Sample ID: **lcs-64464**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **64464**	RunNo: **84531**							
Prep Date: **12/13/2021**	Analysis Date: **12/14/2021**	SeqNo: **2970678**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.6	78.6	131			
Surr: BFB	1100		1000		111	70	130			

Sample ID: **2112741-014ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **SB-2-30**	Batch ID: **64464**	RunNo: **84531**							
Prep Date: **12/13/2021**	Analysis Date: **12/14/2021**	SeqNo: **2970680**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.9	24.53	0	122	61.3	114			S
Surr: BFB	1100		981.4		114	70	130			

Sample ID: **2112741-014amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **SB-2-30**	Batch ID: **64464**	RunNo: **84531**							
Prep Date: **12/13/2021**	Analysis Date: **12/14/2021**	SeqNo: **2970681**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	4.9	24.63	0	130	61.3	114	7.16	20	S
Surr: BFB	1100		985.2		116	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	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112741**
21-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **mb-64437**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **64437**	RunNo: **84489**
Prep Date: **12/10/2021**	Analysis Date: **12/13/2021**	SeqNo: **2969138** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Sample ID: **LCS-64437**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **64437**	RunNo: **84489**
Prep Date: **12/10/2021**	Analysis Date: **12/13/2021**	SeqNo: **2969139** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.3	80	120			
Toluene	0.94	0.050	1.000	0	93.5	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.9	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.8	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	70	130			

Sample ID: **MB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **BS84502**	RunNo: **84502**
Prep Date:	Analysis Date: **12/14/2021**	SeqNo: **2969467** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96		1.000		95.5	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **BS84502**	RunNo: **84502**
Prep Date:	Analysis Date: **12/14/2021**	SeqNo: **2969468** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.98		1.000		98.1	70	130			

Sample ID: **mb-64467**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **64467**	RunNo: **84502**
Prep Date: **12/13/2021**	Analysis Date: **12/14/2021**	SeqNo: **2970588** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112741**
21-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **mb-64467**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**						
Client ID: **PBS**	Batch ID: **64467**	RunNo: **84502**						
Prep Date: **12/13/2021**	Analysis Date: **12/14/2021**	SeqNo: **2970588**	Units: **mg/Kg**					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.82		1.000		82.2	70	130			

Sample ID: **lcs-64467**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**						
Client ID: **LCSS**	Batch ID: **64467**	RunNo: **84502**						
Prep Date: **12/13/2021**	Analysis Date: **12/14/2021**	SeqNo: **2970589**	Units: **mg/Kg**					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	84.2	80	120			
Toluene	0.85	0.050	1.000	0	84.7	80	120			
Ethylbenzene	0.85	0.050	1.000	0	85.2	80	120			
Xylenes, Total	2.5	0.10	3.000	0	82.7	80	120			
Surr: 4-Bromofluorobenzene	0.82		1.000		81.6	70	130			

Sample ID: **mb-64464**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**						
Client ID: **PBS**	Batch ID: **64464**	RunNo: **84531**						
Prep Date: **12/13/2021**	Analysis Date: **12/14/2021**	SeqNo: **2970712**	Units: **mg/Kg**					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		107	70	130			

Sample ID: **LCS-64464**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**						
Client ID: **LCSS**	Batch ID: **64464**	RunNo: **84531**						
Prep Date: **12/13/2021**	Analysis Date: **12/14/2021**	SeqNo: **2970716**	Units: **mg/Kg**					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.3	80	120			
Toluene	0.94	0.050	1.000	0	93.6	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.7	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	70	130			

Sample ID: **2112741-015ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**						
Client ID: **SB-2-35**	Batch ID: **64464**	RunNo: **84531**						
Prep Date: **12/13/2021**	Analysis Date: **12/14/2021**	SeqNo: **2970722**	Units: **mg/Kg**					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112741**
21-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **2112741-015ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **SB-2-35**	Batch ID: **64464**	RunNo: **84531**							
Prep Date: **12/13/2021**	Analysis Date: **12/14/2021**	SeqNo: **2970722**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9506	0	109	80	120			
Toluene	1.1	0.048	0.9506	0.01317	111	80	120			
Ethylbenzene	1.1	0.048	0.9506	0	116	80	120			
Xylenes, Total	3.3	0.095	2.852	0	115	80	120			
Surr: 4-Bromofluorobenzene	1.0		0.9506		110	70	130			

Sample ID: **2112741-015amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**							
Client ID: **SB-2-35**	Batch ID: **64464**	RunNo: **84531**							
Prep Date: **12/13/2021**	Analysis Date: **12/14/2021**	SeqNo: **2970724**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.024	0.9470	0	122	80	120	10.6	20	S
Toluene	1.2	0.047	0.9470	0.01317	123	80	120	10.4	20	S
Ethylbenzene	1.2	0.047	0.9470	0	127	80	120	8.82	20	S
Xylenes, Total	3.6	0.095	2.841	0	127	80	120	9.37	20	S
Surr: 4-Bromofluorobenzene	1.1		0.9470		111	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	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: GHD Midland | Work Order Number: 2112741 | RcptNo: 1

Received By: Cheyenne Cason 12/10/2021 7:20:00 AM

Completed By: Sean Livingston 12/10/2021 8:42:40 AM

Reviewed By: 12/10/21

Chain of Custody

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

Log In

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

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

Adjusted? _____

Checked by: TML 12/10/21

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address:

324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

email or Fax#: Becky.Haskell@ghd.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other_____

☐ EDD (Type) _____

Turn-Around Time:

☒ Standard ☒ Rush 5-Day

Project Name:

Hornbaker BA Battery

Project #:

1122080

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 2.6-0=2.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2112741
12/08/21	0805	S	SB-4-5	Jar		001
	0810		SB-4-10			002
	0815		SB-4-15			003
	0820		SB-4-20			004
	0825		SB-4-25			005
	0830		SB-4-30			006
	0835		SB-4-35			007
	0840		SB-4-40			008
	0935		SB-2-5			009
	0940		SB-2-10			010
	0945		SB-2-15			011
	0950		SB-2-20			012

BTEX / MTBE / TMB's (8021) | TPH:8015D(GRO / DRO / MRO) | 8081 Pesticides/8082 PCB's | EDB (Method 504.1) | PAHs by 8310 or 8270SIMS | RCRA 8 Metals | Cl, F, Br, NO_3, NO_2, PO_4, SO_4 | 8260 (VOA) | 8270 (Semi-VOA) | Total Coliform (Present/Absent) | Chloride 300

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
12/9/21	0800	Zach Comino			12/9/21	800
12/9/21	1900		Chris Comino		12/10/21	0720

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com: Along with Becky Haskell listed above.

Direct Bill to EOG Chase Settle

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

2 of 3

Client: GHD

Mailing Address:

324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

email or Fax#: Becky.Haskell@ghd.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush 5-Day

Project Name: Hawkbaker BA Battery

Project #: 1122885

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 2.6-0=2.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride Method 300
12/8/21	0955	S	SB-2-25	Jar		013											
	1000		SB-2-30			014											
	1005		SB-2-35			015											
	1010		SB-2-40			016											
	1015		SB-2-45			017											
	1020		SB-2-50			018											
	1025		SB-2-55			019											
	1030		SB-2-60			020											
	1035		SB-2-70			021											
	1230		SB-2-80			022											
	1330		SB-2-85			023											
	1345		SB-1-5			024											

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
12/8/21	0800	Zach Comino				
12/9/21	1900				12/9/21	800
			Courier		12/10/21	0720

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com: Along with Becky Haskell listed above.

Direct Bill to EOG Chase Settle

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Chain-of-Custody Record

Client: GHD

Mailing Address: 324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

email or Fax#: Becky.Haskell@ghd.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☒ Rush 5-Day

Project Name: Hornbaker BA Battery

Project #: 1122880

Project Manager:
Becky Haskell
Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 1 2.6-0=2.6

Cooler Temp(including CF): 5.6-0=

HALL ENVIRONMENTAL ANALYSIS LABORATORY
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Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
12/8/21	1350	S	SB-1-10	Jar		025
	1355		SB-1-15			026
	1400		SB-1-20			027
	1405		SB-1-25			028
	1410		SB-1-30			029
	1415		SB-1-35			030
	1420		SB-1-40			031
	1425		SB-1-45			032
	1470		SB-1-50			033
	1530		SB-1-60			034
	1600		SB-1-70			035
↓	1630	↓	SB-1-80	↓		036

Analysis Request

BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride Mather 300
↓	↓									↓

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
12/8/21	0800	Zach Comino				
12/9/21	1900				12/9/21	800
			Chris Carr		12/10/21	0720

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com: Along with Becky Haskell listed above.
Direct Bill to EOG Chase Settle

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

December 28, 2021

Becky Haskell
GHD Midland
2135 S Loop 250 W
Midland, TX 79703
TEL: (432) 686-0086
FAX:

RE: Hornbaker BA Battery OrderNo.: 2112A31

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 16 sample(s) on 12/16/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2112A31**
Date Reported: **12/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-3- 5'
Project: Hornbaker BA Battery
Collection Date: 12/14/2021 7:35:00 AM
Lab ID: 2112A31-001 **Matrix:** SOIL **Received Date:** 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1100	60		mg/Kg	20	12/21/2021 11:46:39 PM	64679
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	250	99		mg/Kg	10	12/20/2021 10:06:34 PM	64586
Motor Oil Range Organics (MRO)	610	500		mg/Kg	10	12/20/2021 10:06:34 PM	64586
Surr: DNOP	0	70-130	S	%Rec	10	12/20/2021 10:06:34 PM	64586
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/17/2021 5:36:00 PM	64571
Surr: BFB	87.9	70-130		%Rec	1	12/17/2021 5:36:00 PM	64571
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.023		mg/Kg	1	12/17/2021 5:36:00 PM	64571
Toluene	ND	0.047		mg/Kg	1	12/17/2021 5:36:00 PM	64571
Ethylbenzene	ND	0.047		mg/Kg	1	12/17/2021 5:36:00 PM	64571
Xylenes, Total	ND	0.093		mg/Kg	1	12/17/2021 5:36:00 PM	64571
Surr: 4-Bromofluorobenzene	78.9	70-130		%Rec	1	12/17/2021 5:36:00 PM	64571

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

Qualifiers:

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

Analytical Report
Lab Order **2112A31**
Date Reported: **12/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-3- 10'
Project: Hornbaker BA Battery
Collection Date: 12/14/2021 7:40:00 AM
Lab ID: 2112A31-002 **Matrix:** SOIL **Received Date:** 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1200	60		mg/Kg	20	12/22/2021 12:23:41 AM	64679
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	9.0	9.0		mg/Kg	1	12/20/2021 10:37:57 PM	64586
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/20/2021 10:37:57 PM	64586
Surr: DNOP	129	70-130		%Rec	1	12/20/2021 10:37:57 PM	64586
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/17/2021 6:35:00 PM	64571
Surr: BFB	87.0	70-130		%Rec	1	12/17/2021 6:35:00 PM	64571
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	12/17/2021 6:35:00 PM	64571
Toluene	ND	0.047		mg/Kg	1	12/17/2021 6:35:00 PM	64571
Ethylbenzene	ND	0.047		mg/Kg	1	12/17/2021 6:35:00 PM	64571
Xylenes, Total	ND	0.095		mg/Kg	1	12/17/2021 6:35:00 PM	64571
Surr: 4-Bromofluorobenzene	79.4	70-130		%Rec	1	12/17/2021 6:35:00 PM	64571

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

Qualifiers:

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

Analytical Report
Lab Order **2112A31**
Date Reported: **12/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-3- 15'
Project: Hornbaker BA Battery
Collection Date: 12/14/2021 7:45:00 AM
Lab ID: 2112A31-003 **Matrix:** SOIL **Received Date:** 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	3200	150		mg/Kg	50	12/22/2021 4:48:01 PM	64679
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/20/2021 10:58:52 PM	64586
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/20/2021 10:58:52 PM	64586
Surr: DNOP	125	70-130		%Rec	1	12/20/2021 10:58:52 PM	64586
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/17/2021 7:34:00 PM	64571
Surr: BFB	86.9	70-130		%Rec	1	12/17/2021 7:34:00 PM	64571
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	12/17/2021 7:34:00 PM	64571
Toluene	ND	0.049		mg/Kg	1	12/17/2021 7:34:00 PM	64571
Ethylbenzene	ND	0.049		mg/Kg	1	12/17/2021 7:34:00 PM	64571
Xylenes, Total	ND	0.098		mg/Kg	1	12/17/2021 7:34:00 PM	64571
Surr: 4-Bromofluorobenzene	79.7	70-130		%Rec	1	12/17/2021 7:34:00 PM	64571

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

Qualifiers:

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

Analytical Report
Lab Order **2112A31**
Date Reported: **12/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-3- 20'
Project: Hornbaker BA Battery
Collection Date: 12/14/2021 7:50:00 AM
Lab ID: 2112A31-004 **Matrix:** SOIL **Received Date:** 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	6100	300		mg/Kg	100	12/22/2021 5:00:22 PM	64679
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/20/2021 11:09:20 PM	64586
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/20/2021 11:09:20 PM	64586
Surr: DNOP	103	70-130		%Rec	1	12/20/2021 11:09:20 PM	64586
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/17/2021 7:53:00 PM	64571
Surr: BFB	87.2	70-130		%Rec	1	12/17/2021 7:53:00 PM	64571
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	12/17/2021 7:53:00 PM	64571
Toluene	ND	0.049		mg/Kg	1	12/17/2021 7:53:00 PM	64571
Ethylbenzene	ND	0.049		mg/Kg	1	12/17/2021 7:53:00 PM	64571
Xylenes, Total	ND	0.099		mg/Kg	1	12/17/2021 7:53:00 PM	64571
Surr: 4-Bromofluorobenzene	79.5	70-130		%Rec	1	12/17/2021 7:53:00 PM	64571

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

Qualifiers:

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

Analytical Report
Lab Order **2112A31**
Date Reported: **12/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-3- 25'
Project: Hornbaker BA Battery
Collection Date: 12/14/2021 7:55:00 AM
Lab ID: 2112A31-005 **Matrix:** SOIL **Received Date:** 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	5500	300		mg/Kg	100	12/22/2021 5:12:43 PM	64679
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	12/20/2021 11:19:50 PM	64586
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/20/2021 11:19:50 PM	64586
Surr: DNOP	101	70-130		%Rec	1	12/20/2021 11:19:50 PM	64586
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/17/2021 8:13:00 PM	64571
Surr: BFB	87.4	70-130		%Rec	1	12/17/2021 8:13:00 PM	64571
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	12/17/2021 8:13:00 PM	64571
Toluene	ND	0.050		mg/Kg	1	12/17/2021 8:13:00 PM	64571
Ethylbenzene	ND	0.050		mg/Kg	1	12/17/2021 8:13:00 PM	64571
Xylenes, Total	ND	0.099		mg/Kg	1	12/17/2021 8:13:00 PM	64571
Surr: 4-Bromofluorobenzene	80.0	70-130		%Rec	1	12/17/2021 8:13:00 PM	64571

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

Qualifiers:

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

Analytical Report
Lab Order **2112A31**
Date Reported: **12/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-3- 30'
Project: Hornbaker BA Battery
Collection Date: 12/14/2021 8:00:00 AM
Lab ID: 2112A31-006 **Matrix:** SOIL **Received Date:** 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	5900	300		mg/Kg	100	12/22/2021 5:25:04 PM	64679
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	12/20/2021 11:30:21 PM	64586
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/20/2021 11:30:21 PM	64586
Surr: DNOP	102	70-130		%Rec	1	12/20/2021 11:30:21 PM	64586
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/17/2021 8:33:00 PM	64571
Surr: BFB	87.1	70-130		%Rec	1	12/17/2021 8:33:00 PM	64571
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	12/17/2021 8:33:00 PM	64571
Toluene	ND	0.049		mg/Kg	1	12/17/2021 8:33:00 PM	64571
Ethylbenzene	ND	0.049		mg/Kg	1	12/17/2021 8:33:00 PM	64571
Xylenes, Total	ND	0.098		mg/Kg	1	12/17/2021 8:33:00 PM	64571
Surr: 4-Bromofluorobenzene	79.7	70-130		%Rec	1	12/17/2021 8:33:00 PM	64571

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

Qualifiers:

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

Analytical Report
Lab Order **2112A31**
Date Reported: **12/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-3- 35'
Project: Hornbaker BA Battery
Collection Date: 12/14/2021 8:05:00 AM
Lab ID: 2112A31-007 **Matrix:** SOIL **Received Date:** 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	6500	300		mg/Kg	100	12/23/2021 1:24:30 PM	64682
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/20/2021 11:40:54 PM	64586
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/20/2021 11:40:54 PM	64586
Surr: DNOP	101	70-130		%Rec	1	12/20/2021 11:40:54 PM	64586
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/17/2021 8:52:00 PM	64571
Surr: BFB	89.9	70-130		%Rec	1	12/17/2021 8:52:00 PM	64571
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	12/17/2021 8:52:00 PM	64571
Toluene	ND	0.049		mg/Kg	1	12/17/2021 8:52:00 PM	64571
Ethylbenzene	ND	0.049		mg/Kg	1	12/17/2021 8:52:00 PM	64571
Xylenes, Total	ND	0.097		mg/Kg	1	12/17/2021 8:52:00 PM	64571
Surr: 4-Bromofluorobenzene	78.0	70-130		%Rec	1	12/17/2021 8:52:00 PM	64571

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

Qualifiers:

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

Analytical Report
Lab Order **2112A31**
Date Reported: **12/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-3- 40'
Project: Hornbaker BA Battery
Collection Date: 12/14/2021 8:10:00 AM
Lab ID: 2112A31-008 **Matrix:** SOIL **Received Date:** 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	7100	300		mg/Kg	100	12/23/2021 5:57:29 PM	64682
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	12/20/2021 11:51:28 PM	64586
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/20/2021 11:51:28 PM	64586
Surr: DNOP	101	70-130		%Rec	1	12/20/2021 11:51:28 PM	64586
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/17/2021 9:12:00 PM	64571
Surr: BFB	85.6	70-130		%Rec	1	12/17/2021 9:12:00 PM	64571
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	12/17/2021 9:12:00 PM	64571
Toluene	ND	0.049		mg/Kg	1	12/17/2021 9:12:00 PM	64571
Ethylbenzene	ND	0.049		mg/Kg	1	12/17/2021 9:12:00 PM	64571
Xylenes, Total	ND	0.099		mg/Kg	1	12/17/2021 9:12:00 PM	64571
Surr: 4-Bromofluorobenzene	77.9	70-130		%Rec	1	12/17/2021 9:12:00 PM	64571

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

Qualifiers:

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

Analytical Report
Lab Order **2112A31**
Date Reported: **12/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-3- 45'
Project: Hornbaker BA Battery
Collection Date: 12/14/2021 8:15:00 AM
Lab ID: 2112A31-009 **Matrix:** SOIL **Received Date:** 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	6900	300		mg/Kg	100	12/23/2021 1:49:20 PM	64682
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	7.8		mg/Kg	1	12/21/2021 12:02:03 AM	64586
Motor Oil Range Organics (MRO)	ND	39		mg/Kg	1	12/21/2021 12:02:03 AM	64586
Surr: DNOP	126	70-130		%Rec	1	12/21/2021 12:02:03 AM	64586
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/17/2021 9:32:00 PM	64571
Surr: BFB	92.4	70-130		%Rec	1	12/17/2021 9:32:00 PM	64571
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	12/17/2021 9:32:00 PM	64571
Toluene	ND	0.049		mg/Kg	1	12/17/2021 9:32:00 PM	64571
Ethylbenzene	ND	0.049		mg/Kg	1	12/17/2021 9:32:00 PM	64571
Xylenes, Total	ND	0.098		mg/Kg	1	12/17/2021 9:32:00 PM	64571
Surr: 4-Bromofluorobenzene	81.5	70-130		%Rec	1	12/17/2021 9:32:00 PM	64571

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

Qualifiers:

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

Analytical Report
Lab Order **2112A31**
Date Reported: **12/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-3- 50'
Project: Hornbaker BA Battery
Collection Date: 12/14/2021 8:20:00 AM
Lab ID: 2112A31-010 **Matrix:** SOIL **Received Date:** 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	5400	300		mg/Kg	100	12/23/2021 2:01:45 PM	64682
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/21/2021 12:12:40 AM	64586
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/21/2021 12:12:40 AM	64586
Surr: DNOP	136	70-130	S	%Rec	1	12/21/2021 12:12:40 AM	64586
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/17/2021 9:51:00 PM	64571
Surr: BFB	87.4	70-130		%Rec	1	12/17/2021 9:51:00 PM	64571
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	12/17/2021 9:51:00 PM	64571
Toluene	ND	0.049		mg/Kg	1	12/17/2021 9:51:00 PM	64571
Ethylbenzene	ND	0.049		mg/Kg	1	12/17/2021 9:51:00 PM	64571
Xylenes, Total	ND	0.098		mg/Kg	1	12/17/2021 9:51:00 PM	64571
Surr: 4-Bromofluorobenzene	79.4	70-130		%Rec	1	12/17/2021 9:51:00 PM	64571

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

Qualifiers:

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

Analytical Report
Lab Order **2112A31**
Date Reported: **12/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-3- 55'
Project: Hornbaker BA Battery
Collection Date: 12/14/2021 9:35:00 AM
Lab ID: 2112A31-011 **Matrix:** SOIL **Received Date:** 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	5500	300		mg/Kg	100	12/23/2021 2:14:09 PM	64682
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/21/2021 12:23:27 AM	64586
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/21/2021 12:23:27 AM	64586
Surr: DNOP	110	70-130		%Rec	1	12/21/2021 12:23:27 AM	64586
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/17/2021 10:50:00 PM	64571
Surr: BFB	89.4	70-130		%Rec	1	12/17/2021 10:50:00 PM	64571
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	12/17/2021 10:50:00 PM	64571
Toluene	ND	0.050		mg/Kg	1	12/17/2021 10:50:00 PM	64571
Ethylbenzene	ND	0.050		mg/Kg	1	12/17/2021 10:50:00 PM	64571
Xylenes, Total	ND	0.099		mg/Kg	1	12/17/2021 10:50:00 PM	64571
Surr: 4-Bromofluorobenzene	79.3	70-130		%Rec	1	12/17/2021 10:50:00 PM	64571

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

Qualifiers:

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

Analytical Report
Lab Order **2112A31**
Date Reported: **12/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-3- 60'
Project: Hornbaker BA Battery
Collection Date: 12/14/2021 10:00:00 AM
Lab ID: 2112A31-012 **Matrix:** SOIL **Received Date:** 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	5000	300		mg/Kg	100	12/23/2021 2:26:33 PM	64682
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/20/2021 9:25:26 AM	64609
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/20/2021 9:25:26 AM	64609
Surr: DNOP	86.4	70-130		%Rec	1	12/20/2021 9:25:26 AM	64609
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/17/2021 11:09:00 PM	64571
Surr: BFB	90.1	70-130		%Rec	1	12/17/2021 11:09:00 PM	64571
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	12/17/2021 11:09:00 PM	64571
Toluene	ND	0.048		mg/Kg	1	12/17/2021 11:09:00 PM	64571
Ethylbenzene	ND	0.048		mg/Kg	1	12/17/2021 11:09:00 PM	64571
Xylenes, Total	ND	0.096		mg/Kg	1	12/17/2021 11:09:00 PM	64571
Surr: 4-Bromofluorobenzene	83.3	70-130		%Rec	1	12/17/2021 11:09:00 PM	64571

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

Qualifiers:

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

Analytical Report
Lab Order **2112A31**
Date Reported: **12/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-3- 70'
Project: Hornbaker BA Battery
Collection Date: 12/14/2021 10:30:00 AM
Lab ID: 2112A31-013 **Matrix:** SOIL **Received Date:** 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	2300	150		mg/Kg	50	12/23/2021 2:38:57 PM	64682
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/20/2021 9:59:31 AM	64609
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/20/2021 9:59:31 AM	64609
Surr: DNOP	83.0	70-130		%Rec	1	12/20/2021 9:59:31 AM	64609
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/17/2021 11:29:00 PM	64571
Surr: BFB	88.9	70-130		%Rec	1	12/17/2021 11:29:00 PM	64571
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.023		mg/Kg	1	12/17/2021 11:29:00 PM	64571
Toluene	ND	0.046		mg/Kg	1	12/17/2021 11:29:00 PM	64571
Ethylbenzene	ND	0.046		mg/Kg	1	12/17/2021 11:29:00 PM	64571
Xylenes, Total	ND	0.092		mg/Kg	1	12/17/2021 11:29:00 PM	64571
Surr: 4-Bromofluorobenzene	82.2	70-130		%Rec	1	12/17/2021 11:29:00 PM	64571

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

Qualifiers:

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

Analytical Report
Lab Order **2112A31**
Date Reported: **12/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-3- 75'
Project: Hornbaker BA Battery
Collection Date: 12/14/2021 10:40:00 AM
Lab ID: 2112A31-014 **Matrix:** SOIL **Received Date:** 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	5100	300		mg/Kg	100	12/23/2021 2:51:21 PM	64682
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	12/20/2021 10:11:16 AM	64609
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/20/2021 10:11:16 AM	64609
Surr: DNOP	88.4	70-130		%Rec	1	12/20/2021 10:11:16 AM	64609
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/17/2021 11:48:00 PM	64571
Surr: BFB	95.5	70-130		%Rec	1	12/17/2021 11:48:00 PM	64571
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	12/17/2021 11:48:00 PM	64571
Toluene	ND	0.048		mg/Kg	1	12/17/2021 11:48:00 PM	64571
Ethylbenzene	ND	0.048		mg/Kg	1	12/17/2021 11:48:00 PM	64571
Xylenes, Total	ND	0.097		mg/Kg	1	12/17/2021 11:48:00 PM	64571
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	12/17/2021 11:48:00 PM	64571

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

Qualifiers:

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

Analytical Report
Lab Order **2112A31**
Date Reported: **12/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-3- 85'
Project: Hornbaker BA Battery
Collection Date: 12/14/2021 11:25:00 AM
Lab ID: 2112A31-015 **Matrix:** SOIL **Received Date:** 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1300	60		mg/Kg	20	12/22/2021 1:30:27 PM	64682
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	9.5	9.4		mg/Kg	1	12/20/2021 10:22:23 AM	64609
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/20/2021 10:22:23 AM	64609
Surr: DNOP	76.8	70-130		%Rec	1	12/20/2021 10:22:23 AM	64609
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/18/2021 12:08:00 AM	64571
Surr: BFB	91.3	70-130		%Rec	1	12/18/2021 12:08:00 AM	64571
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.023		mg/Kg	1	12/18/2021 12:08:00 AM	64571
Toluene	ND	0.047		mg/Kg	1	12/18/2021 12:08:00 AM	64571
Ethylbenzene	ND	0.047		mg/Kg	1	12/18/2021 12:08:00 AM	64571
Xylenes, Total	ND	0.094		mg/Kg	1	12/18/2021 12:08:00 AM	64571
Surr: 4-Bromofluorobenzene	82.4	70-130		%Rec	1	12/18/2021 12:08:00 AM	64571

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

Qualifiers:

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

Analytical Report
Lab Order **2112A31**
Date Reported: **12/28/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-3- 90'
Project: Hornbaker BA Battery
Collection Date: 12/14/2021 11:45:00 AM
Lab ID: 2112A31-016 **Matrix:** SOIL **Received Date:** 12/16/2021 7:52:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	12/22/2021 1:42:47 PM	64682
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	48	8.9		mg/Kg	1	12/20/2021 10:33:40 AM	64609
Motor Oil Range Organics (MRO)	110	44		mg/Kg	1	12/20/2021 10:33:40 AM	64609
Surr: DNOP	90.9	70-130		%Rec	1	12/20/2021 10:33:40 AM	64609
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/18/2021 12:27:00 AM	64571
Surr: BFB	94.9	70-130		%Rec	1	12/18/2021 12:27:00 AM	64571
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.023		mg/Kg	1	12/18/2021 12:27:00 AM	64571
Toluene	ND	0.046		mg/Kg	1	12/18/2021 12:27:00 AM	64571
Ethylbenzene	ND	0.046		mg/Kg	1	12/18/2021 12:27:00 AM	64571
Xylenes, Total	ND	0.092		mg/Kg	1	12/18/2021 12:27:00 AM	64571
Surr: 4-Bromofluorobenzene	84.4	70-130		%Rec	1	12/18/2021 12:27:00 AM	64571

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112A31**
28-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **MB-64679** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **64679** RunNo: **84700**
Prep Date: **12/21/2021** Analysis Date: **12/21/2021** SeqNo: **2979632** Units: **mg/Kg**

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

Sample ID: **LCS-64679** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **64679** RunNo: **84700**
Prep Date: **12/21/2021** Analysis Date: **12/21/2021** SeqNo: **2979633** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.3	90	110			

Sample ID: **MB-64682** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **64682** RunNo: **84755**
Prep Date: **12/22/2021** Analysis Date: **12/22/2021** SeqNo: **2980609** Units: **mg/Kg**

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

Sample ID: **LCS-64682** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **64682** RunNo: **84755**
Prep Date: **12/22/2021** Analysis Date: **12/22/2021** SeqNo: **2980610** Units: **mg/Kg**

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			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112A31**
28-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **MB-64609**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **64609**	RunNo: **84660**
Prep Date: **12/20/2021**	Analysis Date: **12/20/2021**	SeqNo: **2976310** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.4		10.00		84.4	70	130			

Sample ID: **LCS-64609**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **64609**	RunNo: **84660**
Prep Date: **12/20/2021**	Analysis Date: **12/20/2021**	SeqNo: **2976311** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	110	68.9	135			
Surr: DNOP	4.2		5.000		83.9	70	130			

Sample ID: **2112A31-012AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SB-3- 60'**	Batch ID: **64609**	RunNo: **84660**
Prep Date: **12/20/2021**	Analysis Date: **12/20/2021**	SeqNo: **2977087** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.9	49.60	0	96.5	39.3	155			
Surr: DNOP	4.3		4.960		86.7	70	130			

Sample ID: **2112A31-012AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SB-3- 60'**	Batch ID: **64609**	RunNo: **84660**
Prep Date: **12/20/2021**	Analysis Date: **12/20/2021**	SeqNo: **2977088** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.6	47.98	0	95.6	39.3	155	4.24	23.4	
Surr: DNOP	4.1		4.798		85.9	70	130	0	0	

Sample ID: **MB-64586**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **64586**	RunNo: **84661**
Prep Date: **12/17/2021**	Analysis Date: **12/20/2021**	SeqNo: **2977486** 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	11		10.00		108	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112A31**
28-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **LCS-64586** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **64586** RunNo: **84661**
Prep Date: **12/17/2021** Analysis Date: **12/20/2021** SeqNo: **2977487** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.6	68.9	135			
Surr: DNOP	4.5		5.000		90.4	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112A31**
28-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **mb-64571**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **64571**	RunNo: **84642**							
Prep Date: **12/16/2021**	Analysis Date: **12/17/2021**	SeqNo: **2975678**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.6	70	130			

Sample ID: **lcs-64571**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **64571**	RunNo: **84642**							
Prep Date: **12/16/2021**	Analysis Date: **12/17/2021**	SeqNo: **2975680**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.7	78.6	131			
Surr: BFB	1000		1000		101	70	130			

Sample ID: **2112A31-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **SB-3- 5'**	Batch ID: **64571**	RunNo: **84642**							
Prep Date: **12/16/2021**	Analysis Date: **12/17/2021**	SeqNo: **2975682**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.7	23.34	0	118	61.3	114			S
Surr: BFB	920		933.7		98.5	70	130			

Sample ID: **2112A31-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **SB-3- 5'**	Batch ID: **64571**	RunNo: **84642**							
Prep Date: **12/16/2021**	Analysis Date: **12/17/2021**	SeqNo: **2975684**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.6	23.21	0	116	61.3	114	2.68	20	S
Surr: BFB	960		928.5		104	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	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2112A31**
28-Dec-21

Client: GHD Midland
Project: Hornbaker BA Battery

Sample ID: **mb-64571**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **64571**	RunNo: **84642**
Prep Date: **12/16/2021**	Analysis Date: **12/17/2021**	SeqNo: **2975726** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.81		1.000		81.2	70	130			

Sample ID: **lcs-64571**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **64571**	RunNo: **84642**
Prep Date: **12/16/2021**	Analysis Date: **12/17/2021**	SeqNo: **2975728** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.8	80	120			
Toluene	0.88	0.050	1.000	0	88.0	80	120			
Ethylbenzene	0.88	0.050	1.000	0	87.5	80	120			
Xylenes, Total	2.6	0.10	3.000	0	85.5	80	120			
Surr: 4-Bromofluorobenzene	0.81		1.000		80.9	70	130			

Sample ID: **2112A31-002ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SB-3- 10'**	Batch ID: **64571**	RunNo: **84642**
Prep Date: **12/16/2021**	Analysis Date: **12/17/2021**	SeqNo: **2975730** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9479	0	101	80	120			
Toluene	0.95	0.047	0.9479	0	101	80	120			
Ethylbenzene	0.95	0.047	0.9479	0	101	80	120			
Xylenes, Total	2.8	0.095	2.844	0	97.8	80	120			
Surr: 4-Bromofluorobenzene	0.76		0.9479		80.3	70	130			

Sample ID: **2112A31-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SB-3- 10'**	Batch ID: **64571**	RunNo: **84642**
Prep Date: **12/16/2021**	Analysis Date: **12/17/2021**	SeqNo: **2975732** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.024	0.9443	0	94.4	80	120	6.75	20	
Toluene	0.88	0.047	0.9443	0	92.8	80	120	8.30	20	
Ethylbenzene	0.88	0.047	0.9443	0	92.7	80	120	8.43	20	
Xylenes, Total	2.6	0.094	2.833	0	90.5	80	120	8.11	20	
Surr: 4-Bromofluorobenzene	0.74		0.9443		78.4	70	130	0	0	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: **GHD Midland** Work Order Number: **2112A31** RcptNo: **1**

Received By: **Cheyenne Cason** **12/16/2021 7:52:00 AM**

Completed By: **Desiree Dominguez** **12/16/2021 9:51:10 AM**

Reviewed By: MRG 12/16/21

Chain of Custody

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

Log In

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

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

Adjusted?

Checked by: JR 12/16/21

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address: 324 W. Main St. Suite 108 Artesia NM

Phone #: 505-377-4218

email or Fax#: Becky.Haskell@ghd.com

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☐ Standard ☒ Rush 5 Day

Project Name: Hornbaker BA Battery

Project #: 11228980

Project Manager: Becky Haskell

Sampler: Lee M.

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.8 - 0.1 = 1.7 (°C)

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2112A31	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride E300
12/14/21	0735	S	SB-3-5'	1		-001	X	X									X
	0740		SB-3-10'			-002	X	X									X
	0745		SB-3-15'			-003	X	X									X
	0750		SB-3-20'			-004	X	X									X
	0755		SB-3-25'			-005	X	X									X
	~~0800~~ 0800		SB-3-30'			-006	X	X									X
	0805		SB-3-35'			-007	X	X									X
	0810		SB-3-40'			-008	X	X									X
	0815		SB-3-45'			-009	X	X									X
	0820		SB-3-50'			-010	X	X									X
	~~0825~~ 0935		SB-3-55'			-011	X	X									X
↓	10:00	↓	SB-3-60' HOLD 12/10/21	↓		-012	X	X									X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
12/15/21	1145	Lee M			12/15/21	1145
12/15/21	1900				12/16/21	0752

Remarks: SB-3-55' time: 0935

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: GHD

Mailing Address: 324 W. Main St. Suite 108 Artesia NM

Phone #: 505-377-4218

email or Fax#: Becky.Haskell@ghd.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush 5 days

Project Name: Hornbaker BA Battery

Project #: 11228980

Project Manager: Becky Haskell

Sampler: Lee M

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.8-0.1=1.7 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2112A31	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride E 300
12/14/21	1030	S	SB-3-70'	1		-013	X	X									X
12/14	1040		SB-3-75'			-014	X	X									X
	1125		SB-3-85'			-015	X	X									X
	1145		SB-3-90'			-016	X	X									X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
12/15/21	1145				12/15/21	1145
12/15/21	1900				12/16/21	0752

Remarks:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

January 19, 2022

Tom Larson
GHD Midland
2135 S Loop 250 W
Midland, TX 79703
TEL: (432) 686-0086
FAX

RE: Horubaker BA Battery OrderNo.: 2201366

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/11/2022 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 or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2201366**
Date Reported: **1/19/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-3-95
Project: Horubaker BA Battery
Collection Date: 1/7/2022 9:00:00 AM
Lab ID: 2201366-001 **Matrix:** SOIL **Received Date:** 1/11/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	ND	60		mg/Kg	20	1/14/2022 1:51:44 PM	65024
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**JME**
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/13/2022 7:31:20 PM	64980
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/13/2022 7:31:20 PM	64980
Surr: DNOP	70.5	70-130		%Rec	1	1/13/2022 7:31:20 PM	64980
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**mb**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2022 4:32:00 PM	64958
Surr: BFB	90.5	70-130		%Rec	1	1/12/2022 4:32:00 PM	64958
EPA METHOD 8021B: VOLATILES						Analyst:	**mb**
Benzene	ND	0.025		mg/Kg	1	1/12/2022 4:32:00 PM	64958
Toluene	ND	0.049		mg/Kg	1	1/12/2022 4:32:00 PM	64958
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2022 4:32:00 PM	64958
Xylenes, Total	ND	0.098		mg/Kg	1	1/12/2022 4:32:00 PM	64958
Surr: 4-Bromofluorobenzene	91.7	70-130		%Rec	1	1/12/2022 4:32:00 PM	64958

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201366**
19-Jan-22

Client: GHD Midland
Project: Horubaker BA Battery

Sample ID: **MB-65024**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **65024**	RunNo: **85168**							
Prep Date: **1/14/2022**	Analysis Date: **1/14/2022**	SeqNo: **2996994**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-65024**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **65024**	RunNo: **85168**							
Prep Date: **1/14/2022**	Analysis Date: **1/14/2022**	SeqNo: **2996995**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.1	90	110			

Qualifiers:

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ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201366**
19-Jan-22

Client: GHD Midland
Project: Horubaker BA Battery

Sample ID: **MB-64980**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **64980**	RunNo: **85152**
Prep Date: **1/12/2022**	Analysis Date: **1/13/2022**	SeqNo: **2995661** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		89.2	70	130			

Sample ID: **LCS-64980**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **64980**	RunNo: **85152**
Prep Date: **1/12/2022**	Analysis Date: **1/13/2022**	SeqNo: **2995662** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.4	68.9	135			
Surr: DNOP	4.6		5.000		91.8	70	130			

Qualifiers:

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H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201366**
19-Jan-22

Client: GHD Midland
Project: Horubaker BA Battery

Sample ID: **mb-64958**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **64958**	RunNo: **85110**
Prep Date: **1/11/2022**	Analysis Date: **1/12/2022**	SeqNo: **2994495** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	890		1000		88.9	70	130			

Sample ID: **lcs-64958**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **64958**	RunNo: **85110**
Prep Date: **1/11/2022**	Analysis Date: **1/12/2022**	SeqNo: **2994497** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.4	78.6	131			
Surr: BFB	1000		1000		102	70	130			

Qualifiers:

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PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201366**
19-Jan-22

Client: GHD Midland
Project: Horubaker BA Battery

Sample ID: **mb-64958** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **64958** RunNo: **85110**
Prep Date: **1/11/2022** Analysis Date: **1/12/2022** SeqNo: **2994523** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		91.7	70	130			

Sample ID: **lcs-64958** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **64958** RunNo: **85110**
Prep Date: **1/11/2022** Analysis Date: **1/12/2022** SeqNo: **2994524** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.4	80	120			
Toluene	0.95	0.050	1.000	0	94.7	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.9	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.4	70	130			

Qualifiers:

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B	Analyte detected in the associated Method Blank
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J	Analyte detected below quantitation limits
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RL	Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: GHD Midland | Work Order Number: 2201366 | RcptNo: 1

Received By: Cheyenne Cason 1/11/2022 8:00:00 AM

Completed By: Sean Livingston 1/11/2022 9:00:16 AM

Reviewed By: KPG 1/11/22 9:45

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☐ No ☑ NA ☐ Not frozen.
5. Sample(s) in proper container(s)? Yes ☑ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
8. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

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

Adjusted? _____

Checked by: CM 1/11/22

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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-0.4	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address:

324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

email or Fax#: Becky.Haskell@ghd.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☒ Rush 5-day

Project Name:

Hawkeye BA Battery

Project #:

11228980

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): -0.8+0.4 = -0.4

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2201360	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride (Mod) 300	Hold sample if above sample is less than 100 for TPH + 600 on chloride / Please call with questions
01/07/22	0900	S	SB-3-95	Jar		001	X	X									X	
1	0910	1	SB-3-100	1		002	X	X									X	X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
01/07/22	0800	Zach Comino				
1/10/22	1900				1/10/22	800
			Chase Comino		1/11/22	0800

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com: Along with Becky Haskell listed above. Not frozen See 1/11/22

Direct Bill to EOG Chase Settle

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 101668

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 101668
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	None	4/28/2022