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	nAPP2115333378
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 # nAPP2115333378
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

Location of Release Source

Latitude 32.71497 Longitude -104.43501
(NAD 83 in decimal degrees to 5 decimal places)

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

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

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☑ Private (*Name:* Lucid Energy)

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.		

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2115333378
District RP	
Facility ID	
Application ID	

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: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2115333378
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2115333378
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: 11/29/2021

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

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2115333378
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: 11/29/2021

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

OCD Only

Received by: Jennifer Nobui Date: 12/20/2021

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

Signature: Jennifer Nobui Date: 12/20/2021

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

Our ref: 11228976

November 29, 2021

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

Re: Site Characterization and Remediation Work Plan
Gerard AW Battery Release Site
EOG Resources Inc.
Incident ID: nAPP2115333378
O-25-18S-25E, Eddy County, New Mexico

To Whom It May Concern:

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 Gerard AW Battery Release Site (Site). The Site is located in Unit Letter O Section 25 of Township 18 South and Range 25 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.71497 N latitude and 104.43501 W longitude. The release occurred on private surface owned by Lucid Energy. Figure 1, Site Location Map, depicts the Site location. The EOG Battery area and other site details are depicted on Figure 2, Site Assessment and Proposed Excavation Area.

2. Background Information

A C-141 initial report 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 equipment removal associated with this location. Soils within the former battery area 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 Initial Form C-141, Site Assessment/Characterization and Remediation Plain portions of Form C-141 for Incident Number nAPP2115333378 are attached to the front of this report.

3. Groundwater and Site Characterization

The release falls under the jurisdiction of the NMOCD District 2 in Artesia, New Mexico. GHD characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i) the Site is located within an area of low karst potential. One water well was located within a 0.5-mile radius of the Site; the water well located approximately 0.32 miles from the site, has a recorded GW depth of 194 feet. No other receptors (playas, wetlands, waterways, lakebeds or ordinance boundaries) were located within each specific boundaries or distance from the Site. According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i) the Site is located within an area with depth to groundwater greater than one hundred (100) feet and meets the closure criteria for depth to groundwater greater than one hundred (100) feet in Table 1 in NMAC 19.15.29.12. The Site characterization documentation (Well Log, Karst Potential, FEMA, Points of Diversion, Significant Water Course, and Wetlands maps) are provided in Attachment A, Site Characterization Documentation. The soil closure criteria are listed below:

General Site Characterization and Groundwater:

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

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

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 July 1, 2021, GHD installed three (3) hand borings (HA), HA1 through HA3, within the suspected impacted area. Soil samples were collected at two (2) feet below ground surface (bgs). Soil samples were field screened for VOCs and chloride concentrations. HA1 and HA2 had VOC detections over 800 ppm. HA3 had a chloride concentration of 3,140 ppm.

On June 17, June 21, and July 8, 2021, GHD installed one (1) hand boring (HA1), and twelve (12) test pits (TP1 through TP 12), within and around the suspected impact area. 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 TPH concentrations above 2,500 mg/kg at the TP9 location at two (2) feet bgs. None of the other samples collected exhibited benzene, BTEX, TPH, or chloride concentrations above Table 1 closure criteria.

Figure 2, Site Assessment and Proposed Excavation Area, depicts the locations of the initial delineation samples and analytical concentrations. Analytical results are provided in Table 1, on Figure 2, and in the Laboratory Analytical Reports provided in Attachment B.

5. nAPP2115333378 Proposed Work Plan

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

- TP3 to one (1) to two (2) feet bgs or until the soils in the first four (4) feet bgs exhibit TPH concentrations below 100 mg/kg.
- TP1, TP5, TP9, TP10, and TP11 to four (4) feet bgs or until the soils in the first four (4) feet bgs exhibit TPH concentrations below 100 mg/kg and chloride concentrations below 600 mg/kg.

Confirmation samples from the bottom of the excavation will be collected by way of five (5) point composite samples. These proposed sampling points are illustrated on Figure 3, Proposed Sampling Plan, and will be collected 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. Excavation sidewall confirmation samples will be collected by way of five (5) point composite samples, with one (1) sample collected for every 46.5 linear feet of the excavation sidewall when the sidewall height does not exceed four (4) feet bgs, which conforms to the requirement of no sample representing greater than two hundred (200) square feet. 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.

Excavated soils will be transported to an NMOCD approved disposal facility for disposal. The anticipated volume of soil to be disposed of is approximately 4,900 cubic yards. The excavation will be backfilled with non-impacted soil transported to the site. The remediation will be performed within 120 days after the work plan has been approved. A closure report will be prepared to document remediation activities and submitted to the NMOCD when remediation activities have been completed.

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

Nathan Reece
Environmental Scientist

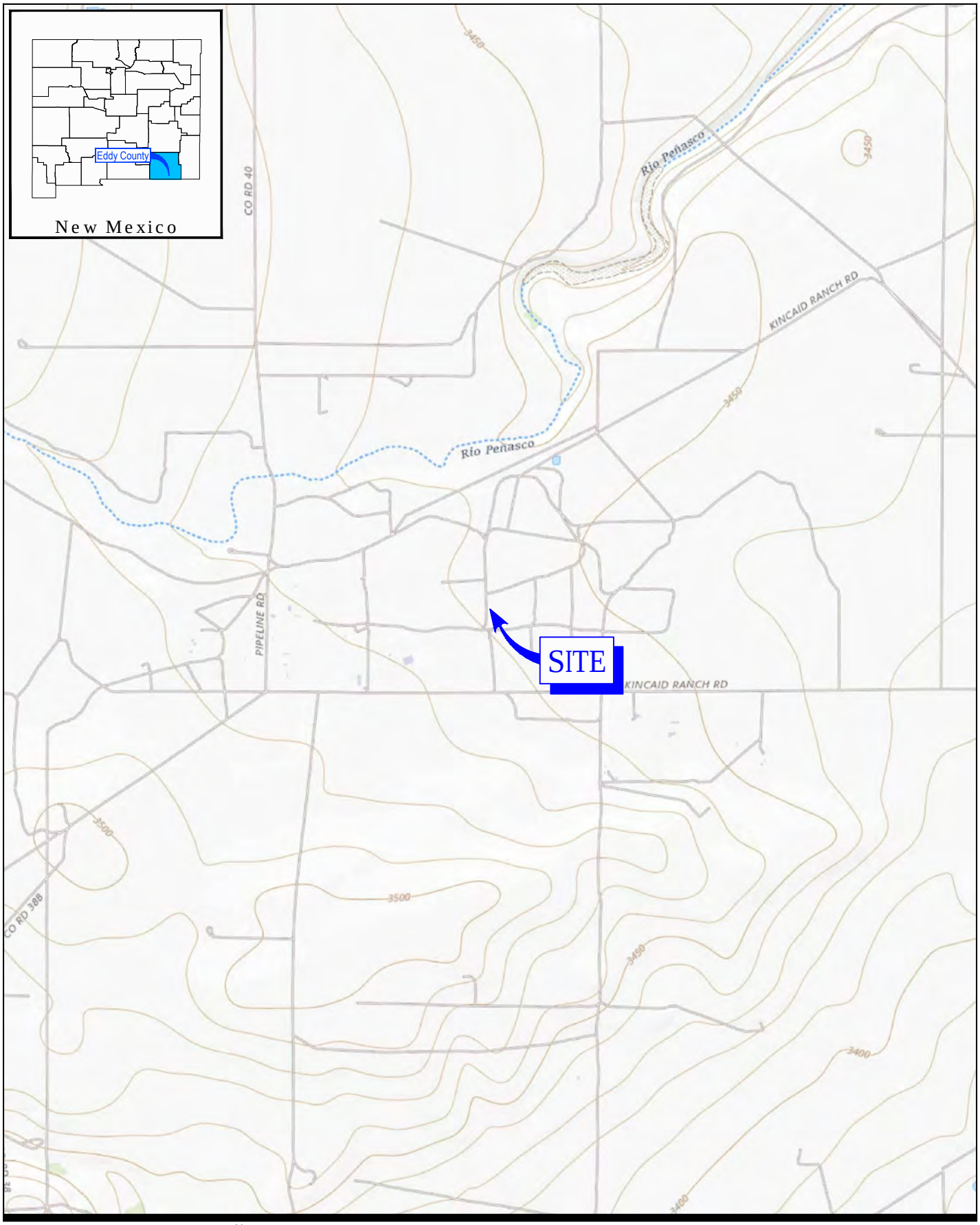
Becky Haskell
Senior Project Manager

NR/bh/1

Encl. Figure 1 – Site Location Map
Figure 2 – Site Assessment and Proposed Excavation Area
Figure 3 – Proposed Sampling Plan
Table 1 – Summary of Soil Analytical Data
Attachment A – Site Characterization Documentation
Attachment B – Laboratory Analytical Reports and Chain-of-Custody Documentation

cc: Chase Settle

Figures



0 1000 2000 ft

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

N

GHD

EOG RESOURCES
EDDY COUNTY, NEW MEXICO
GERARD AW BATTERY

SITE LOCATION MAP

Project No. 11228976
Date October 2021

FIGURE 1

Filename: \\ghdnet\ghd\US\Midland\Projects\562\11228976\Digital_Design\ACAD\Figures\RPT001\11228976-GHD-0000-RPT-EN-0101_DL-001.dwg

Data Source: USGS 7.5 Minute Quad "Dayton, New Mexico"
Lat/Long: 32.715073° North, 104.435058° West

Sample ID	Sample Date	Depth (feet bgs)	Benzene	BTEX	TPH Total GRO/DRO/MRO	Chloride
			(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
			Table I Closure Criteria for Soils <50 feet Depth to			
			10 mg/Kg	50 mg/Kg	2,500 mg/Kg	20,000 mg/Kg
Initial Assessment Samples						
HA1-S	6/21/21	Surface	<0.025	<0.10	<48	<60
HA1-2	6/21/21	2	<0.12	<0.50	**87**	**69**
TP1-2	6/17/21	2	<0.024	<0.096	<50	**2,100**
TP1-10	6/17/21	10	<0.024	<0.098	<48	**8,400**
TP1-14	6/17/21	14	<0.023	<0.094	<49	**8,800**
TP1-20	6/17/21	20	<0.024	<0.095	<49	**9,000**
TP2-S	6/17/21	Surface	<0.024	<0.096	<47	<60
TP2-2	6/17/21	2	<0.024	<0.097	<50	**63**
TP3-S	6/17/21	Surface	<0.024	<0.095	**126**	<60
TP3-2	6/17/21	2	<0.024	<0.094	<49	**150**
TP4-S	6/17/21	Surface	<0.024	<0.096	<50	<60
TP4-2	6/17/21	2	<0.023	<0.093	<50	**66**
TP5-2	6/17/21	2	<0.025	<0.10	**14**	**5,200**
TP5-10	6/17/21	10	<0.023	<0.093	<50	**3,400**
TP5-14	6/17/21	14	<0.025	<0.099	<48	**2,100**
TP5-16	6/21/21	16	<0.024	<0.095	<50	**2,300**
TP5-20	6/21/21	20	<0.024	<0.097	<49	**1,100**
TP6-S	6/21/21	Surface	<0.12	<0.47	<48	<60
TP6-2	6/21/21	2	<0.024	<0.094	<48	<60
TP7-S	6/21/21	Surface	<0.024	<0.096	<48	<60
TP7-2	6/21/21	2	<0.024	<0.095	<46	<59
TP8-S	6/21/21	Surface	<0.024	<0.096	<50	<60
TP8-2	6/21/21	2	<0.025	<0.099	<48	<60
TP9-2	6/21/21	2	<0.049	<0.19	**3,411**	<60
TP9-8	6/21/21	8	<0.025	<0.10	<48	<61
TP9-14	6/21/21	14	<0.024	<0.097	<49	**160**
TP9-20	6/21/21	20	<0.024	<0.097	<49	**550**
TP10-2	07/08/2021	2	<0.023	<0.093	<50	**5,800**
TP10-8	07/08/2021	8	<0.024	<0.097	<50	**5,200**
TP10-15	07/08/2021	15	<0.024	<0.097	<45	**6,500**
TP10-20	07/08/2021	20	<0.025	<0.099	<46	**4,400**
TP11-2	07/08/2021	2	<0.025	<0.099	<50	**7,000**
TP11-8	07/08/2021	8	<0.024	<0.098	<46	**4,700**
TP11-15	07/08/2021	15	<0.023	<0.093	<47	**5,200**
TP11-20	07/08/2021	20	<0.024	<0.095	<50	**5,200**
TP12-S	07/08/2021	Surface	<0.023	<0.094	**54**	<59
TP12-2	07/08/2021	2	<0.024	<0.096	<49	<60

LEGEND

- PROPOSED EXCAVATION AREA
- TEST PIT LOCATION
- HAND AUGER 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 20 40 ft

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

N

GHD

EOG RESOURCES
EDDY COUNTY, NEW MEXICO
GERARD AW BATTERY

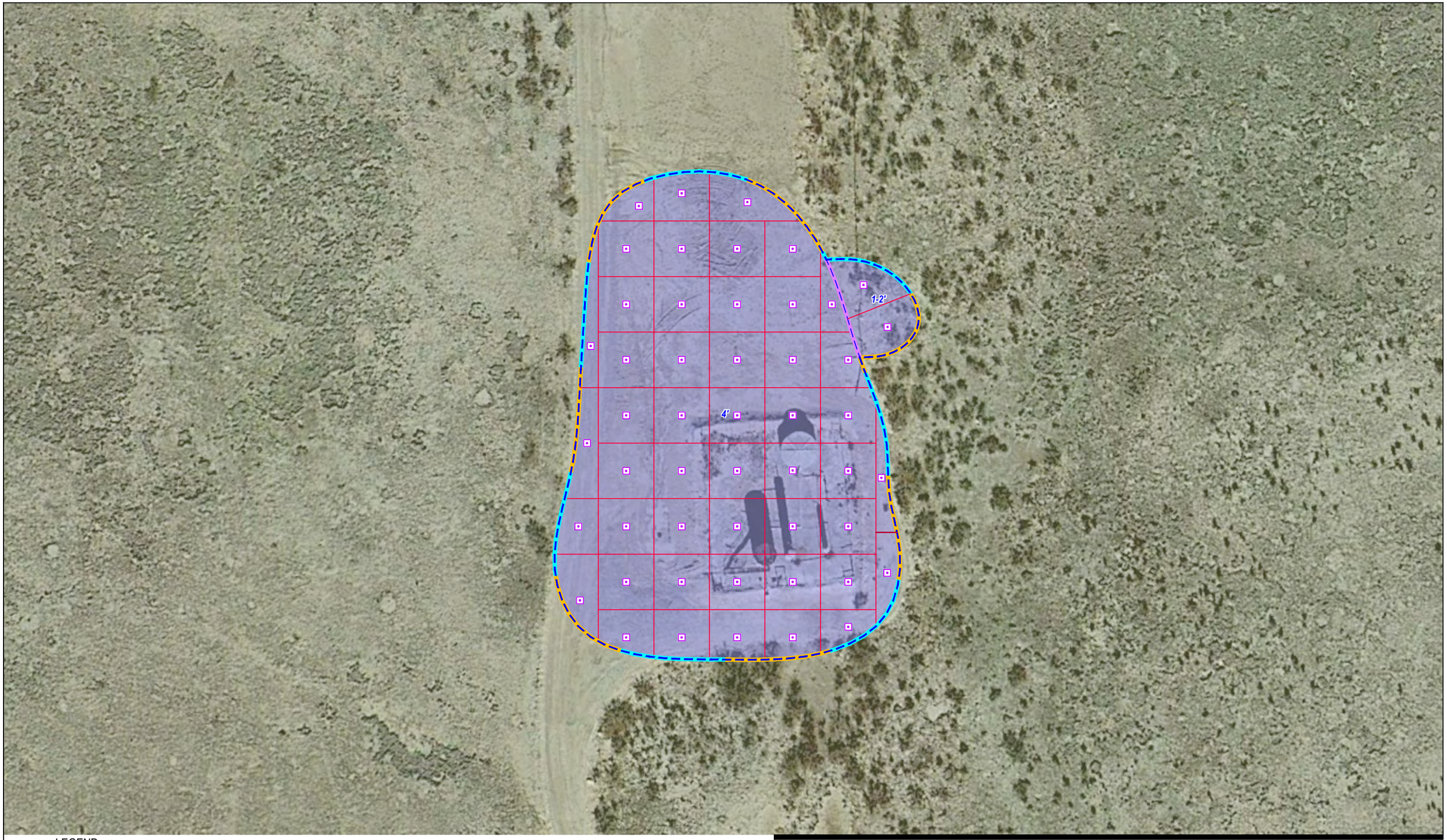
SITE ASSESSMENT AND PROPOSED EXCAVATION AREA

Project No. 11228976
Date November 2021

FIGURE 2

Filename: \\ghdnet\ghd\US\Midland\Projects\562\11228976\Digital_Design\ACAD\Figures\RPT001\11228976-GHD-0000-RPT-EN-0101_DL-001.dwg
Plot Date: 18 November 2021 1:44 PM

Data Source: Image © 2021 Google - Imagery Date: December 29, 2019
Lat/Long: 32.715073° North, 104.435058° West



LEGEND

- PROPOSED EXCAVATED AREA
- PROPOSED COMPOSITE BOTTOM EXCAVATION SAMPLE
- INDICATES PROPOSED SIDE WALL COMPOSITE SAMPLE
- INDICATES PROPOSED SIDE WALL COMPOSITE SAMPLE
- INDICATES PROPOSED SIDE WALL COMPOSITE SAMPLE

0 20 40 ft

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

N

GHD

EOG RESOURCES
EDDY COUNTY, NEW MEXICO
GERARD AW BATTERY

Project No. 11228976
Date November 2021

PROPOSED SAMPLING PLAN

FIGURE 3

Filename: \\ghdnetgha\US\Midland\Projects\55211228976\Digital_Design\ACAD\Figures\RPT001\11228976-GHD-0000-RPT-EN-0101_DL-001.dwg

Data Source: Image © 2021 Google - Imagery Date: December 29, 2019
Lat/Long: 32.715073° North, 104.435058° West

Tables

Table 1
Summary of Soil Analytical Data
Gerard AW Battery
EOG Resources
Eddy County, New Mexico

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												
HA1-S	6/21/21	Surface	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.5	<48	<48	<60
HA1-2	6/21/21	2	<0.12	<0.25	<0.25	<0.50	<0.50	<25	**24**	**63**	**87**	**69**
TP1-2	6/17/21	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<10	<50	<50	**2,100**
TP1-10	6/17/21	10	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<48	<48	**8,400**
TP1-14	6/17/21	14	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.7	<49	<49	**8,800**
TP1-20	6/17/21	20	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.8	<49	<49	**9,000**
TP2-S	6/17/21	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.5	<47	<47	<60
TP2-2	6/17/21	2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<10	<50	<50	**63**
TP3-S	6/17/21	Surface	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	**16**	**110**	**126**	<60
TP3-2	6/17/21	2	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.9	<49	<49	**150**
TP4-S	6/17/21	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<10	<50	<50	<60
TP4-2	6/17/21	2	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<10	<50	<50	**66**
TP5-2	6/17/21	2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	**14**	<48	**14**	**5,200**
TP5-10	6/17/21	10	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<10	<50	<50	**3,400**
TP5-14	6/17/21	14	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48	**2,100**
TP5-16	6/21/21	16	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.9	<50	<50	**2,300**
TP5-20	6/21/21	20	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.8	<49	<49	**1,100**
TP6-S	6/21/21	Surface	<0.12	<0.24	<0.24	<0.47	<0.47	<24	<9.6	<48	<48	<60
TP6-2	6/21/21	2	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.6	<48	<48	<60
TP7-S	6/21/21	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.6	<48	<48	<60
TP7-2	6/21/21	2	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.3	<46	<46	<59
TP8-S	6/21/21	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.9	<50	<50	<60
TP8-2	6/21/21	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48	<60
TP9-2	6/21/21	2	<0.049	<0.097	<0.097	<0.19	<0.19	**11**	**2,000**	**1,400**	**3,411**	<60
TP9-8	6/21/21	8	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<48	<61
TP9-14	6/21/21	14	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.8	<49	<49	**160**
TP9-20	6/21/21	20	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.8	<49	<49	**550**

Table 1
Summary of Soil Analytical Data
Gerard AW Battery
EOG Resources
Eddy County, New Mexico

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
TP10-2	07/08/2021	2	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.9	<50	<50	**5,800**
TP10-8	07/08/2021	8	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<10	<50	<50	**5,200**
TP10-15	07/08/2021	15	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.0	<45	<45	**6,500**
TP10-20	07/08/2021	20	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.2	<46	<46	**4,400**
TP11-2	07/08/2021	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.9	<50	<50	**7,000**
TP11-8	07/08/2021	8	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.2	<46	<46	**4,700**
TP11-15	07/08/2021	15	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.5	<47	<47	**5,200**
TP11-20	07/08/2021	20	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<10	<50	<50	**5,200**
TP12-S	07/08/2021	Surface	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.7	**54**	**54**	<59
TP12-2	07/08/2021	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.8	<49	<49	<60

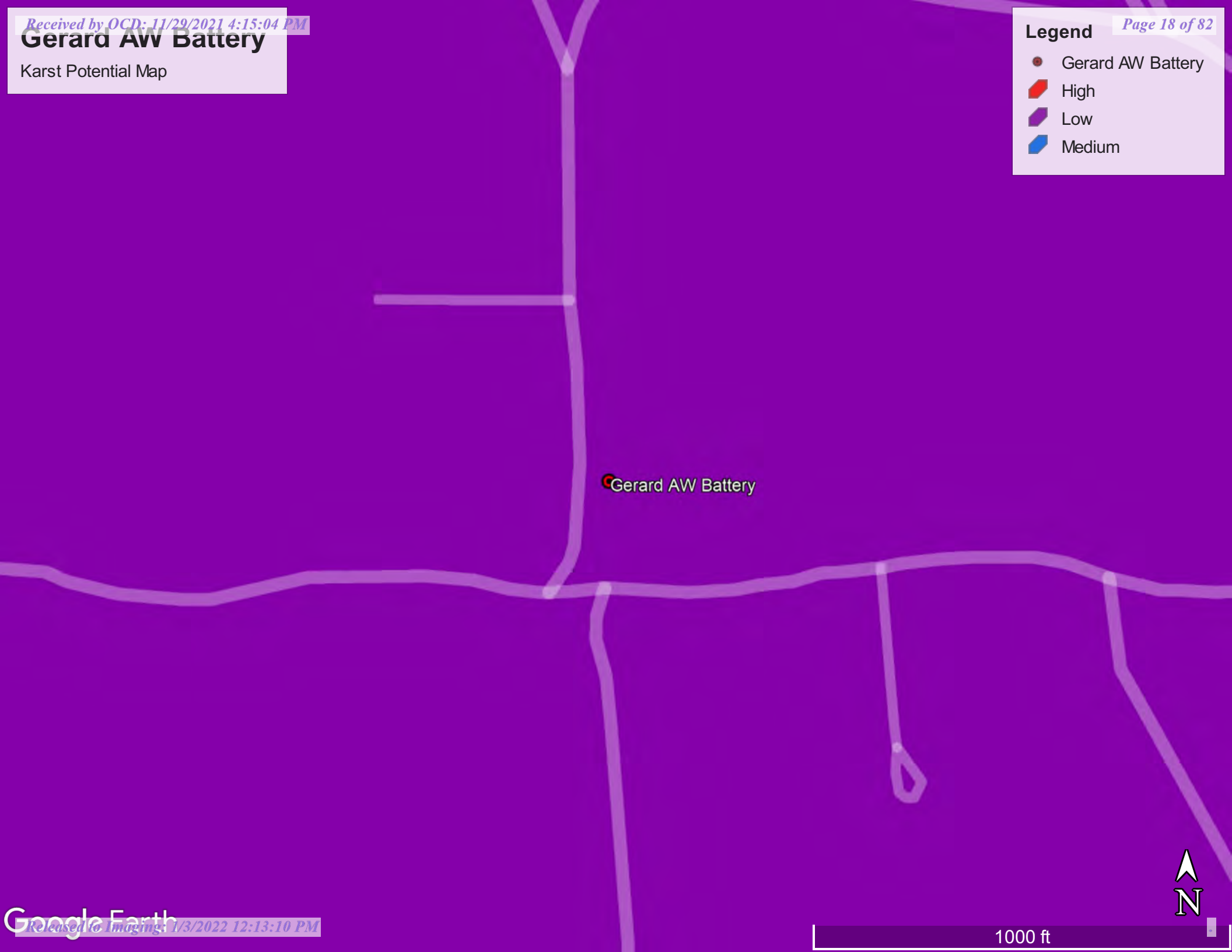
1. Values reported in mg/kg
2. < = Value Less than Reporting Limit (RL)
3. Bold Indicates Analyte Detected
4 BTEX analyses by EPA Method SW 8021B.
5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil
7. Yellow shaded cells indicate analytical samples that exceed the NMOC 19.15.29.12 Table 1 Closure Criteria for the site.
8. 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

Gerard AW Battery

Karst Potential Map



OSE PUBLIC PRINT

10/7/2021, 3:16:10 PM

GIS WATERS PODs

- Active
- Pending
- OSE District Boundary
- SiteBoundaries

1:18,056

0 0.17 0.35 0.7 mi

0 0.3 0.6 1.2 km

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

Printed from Public Web Map
Unofficial Map from OSE POD Locations Web Application

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
20642	RA 12548 POD1	4	4	3	25	18S	25E	552484	3619618

Driller License: 1348 **Driller Company:** TAYLOR WATER WELL SERVICE

Driller Name: TAYLOR, CLINTON E.

Drill Start Date: 11/07/2017 **Drill Finish Date:** 11/13/2017 **Plug Date:**

Log File Date: 12/14/2017 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 2 GPM

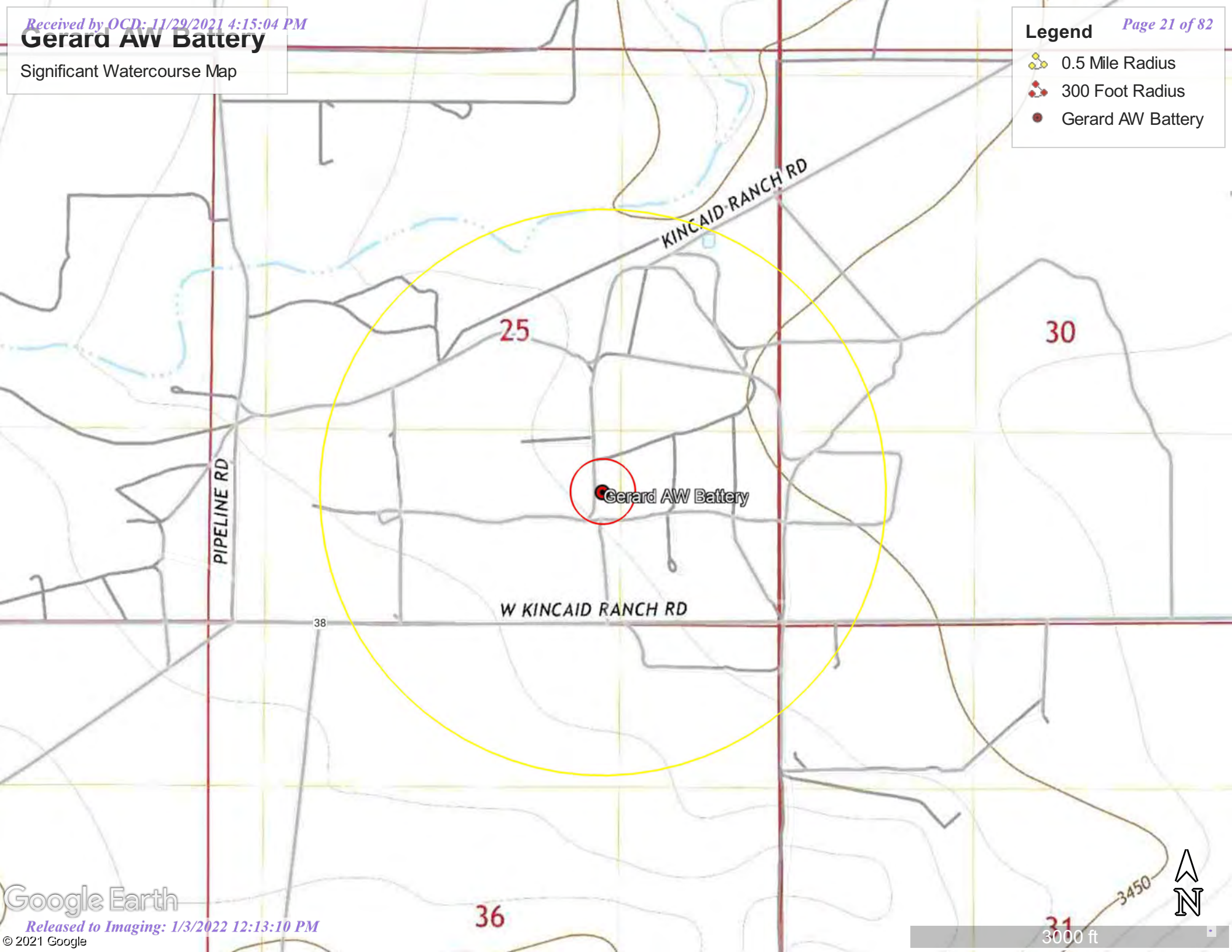
Casing Size: 4.50 **Depth Well:** 255 feet **Depth Water:** 194 feet

Water Bearing Stratifications:	Top	Bottom	Description
	194	206	Shale/Mudstone/Siltstone
	206	255	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	175	255

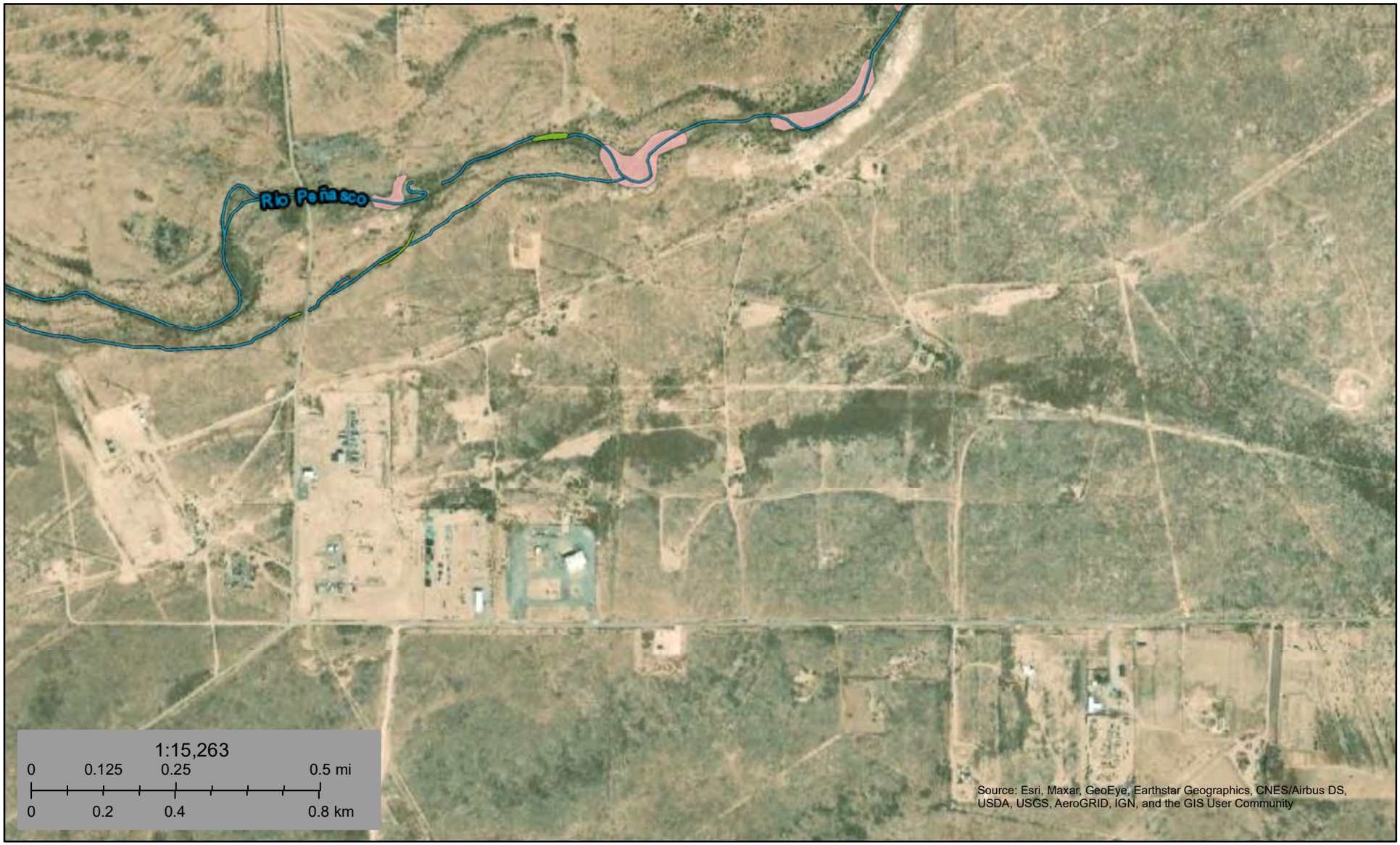
Gerard AW Battery

Significant Watercourse Map



U.S. Fish and Wildlife Service
National Wetlands Inventory

EOG Gerard AW Battery



October 7, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

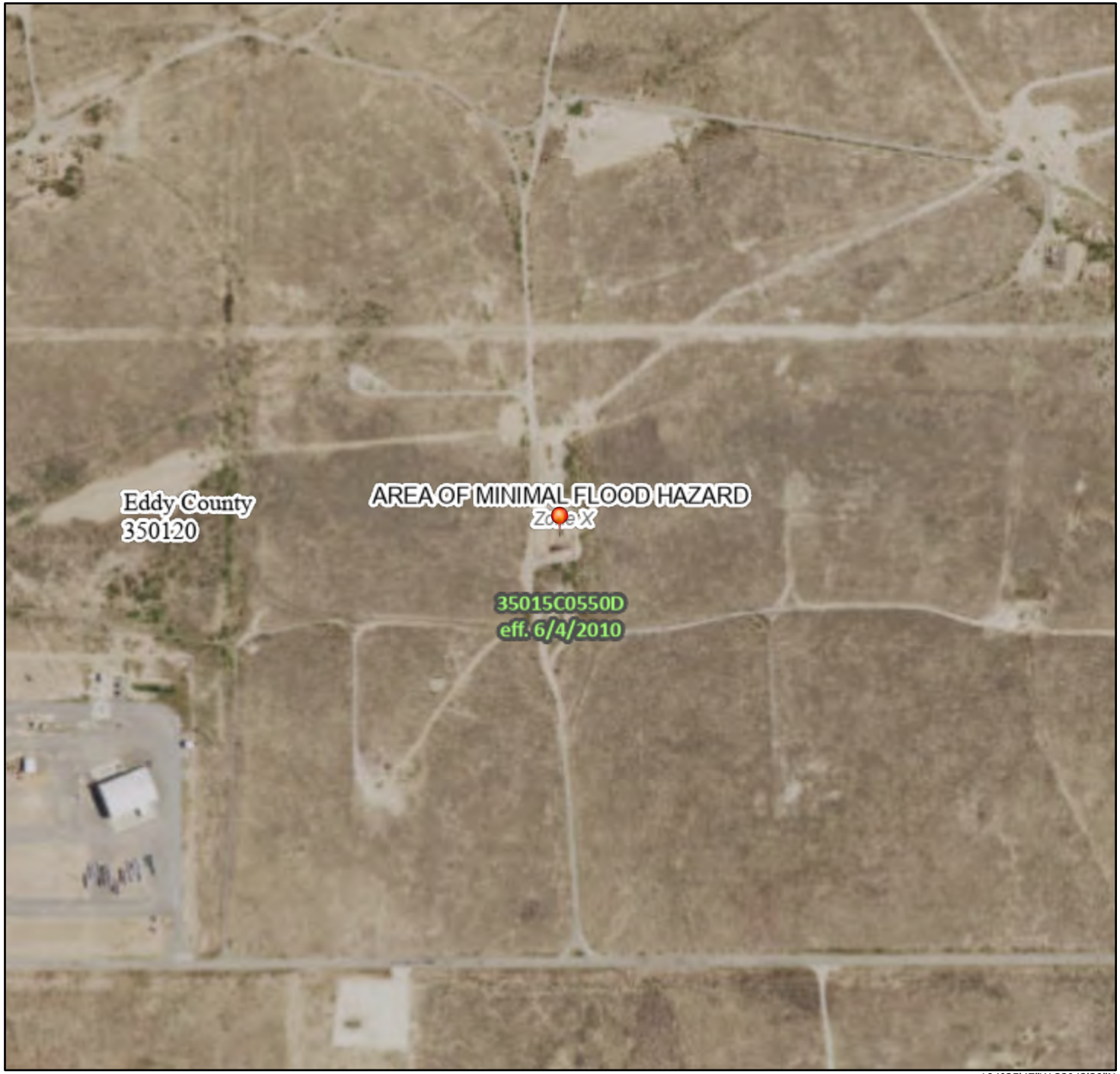
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

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

National Flood Hazard Layer FIRMette

FEMA

104°26'25"W 32°43'9"N



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

1:6,000

104°25'47"W 32°42'39"N

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 10/7/2021 at 4:49 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

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

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 30, 2021

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

RE: Gerard AW Battery OrderNo.: 2106A61

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 13 sample(s) on 6/19/2021 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: **2106A61**
Date Reported: **6/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106A61
Project: Gerard AW Battery

Lab ID: 2106A61-001 **Collection Date:** 6/17/2021 10:00:00 AM
Client Sample ID: TP1-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	2100	60		mg/Kg	20	6/24/2021 10:46:38 PM	60891
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/26/2021 8:24:39 AM	60871
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/26/2021 8:24:39 AM	60871
Surr: DNOP	81.4	70-130		%Rec	1	6/26/2021 8:24:39 AM	60871
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/27/2021 12:51:52 AM	60834
Surr: BFB	106	70-130		%Rec	1	6/27/2021 12:51:52 AM	60834
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/27/2021 12:51:52 AM	60834
Toluene	ND	0.048		mg/Kg	1	6/27/2021 12:51:52 AM	60834
Ethylbenzene	ND	0.048		mg/Kg	1	6/27/2021 12:51:52 AM	60834
Xylenes, Total	ND	0.096		mg/Kg	1	6/27/2021 12:51:52 AM	60834
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	6/27/2021 12:51:52 AM	60834

Lab ID: 2106A61-002 **Collection Date:** 6/17/2021 10:30:00 AM
Client Sample ID: TP1-10 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	8400	300		mg/Kg	100	6/27/2021 12:01:37 AM	60891
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/26/2021 8:48:50 AM	60871
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/26/2021 8:48:50 AM	60871
Surr: DNOP	76.6	70-130		%Rec	1	6/26/2021 8:48:50 AM	60871
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/27/2021 1:15:29 AM	60834
Surr: BFB	105	70-130		%Rec	1	6/27/2021 1:15:29 AM	60834
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/27/2021 1:15:29 AM	60834
Toluene	ND	0.049		mg/Kg	1	6/27/2021 1:15:29 AM	60834
Ethylbenzene	ND	0.049		mg/Kg	1	6/27/2021 1:15:29 AM	60834
Xylenes, Total	ND	0.098		mg/Kg	1	6/27/2021 1:15:29 AM	60834
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	6/27/2021 1:15:29 AM	60834

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: **2106A61**
Date Reported: **6/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106A61
Project: Gerard AW Battery

Lab ID: 2106A61-003 **Collection Date:** 6/17/2021 10:40:00 AM
Client Sample ID: TP1-14 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	8800	300		mg/Kg	100	6/27/2021 12:14:02 AM	60891
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/26/2021 9:13:14 AM	60871
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/26/2021 9:13:14 AM	60871
Surr: DNOP	73.4	70-130		%Rec	1	6/26/2021 9:13:14 AM	60871
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/27/2021 1:39:09 AM	60834
Surr: BFB	105	70-130		%Rec	1	6/27/2021 1:39:09 AM	60834
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/27/2021 1:39:09 AM	60834
Toluene	ND	0.047		mg/Kg	1	6/27/2021 1:39:09 AM	60834
Ethylbenzene	ND	0.047		mg/Kg	1	6/27/2021 1:39:09 AM	60834
Xylenes, Total	ND	0.094		mg/Kg	1	6/27/2021 1:39:09 AM	60834
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	6/27/2021 1:39:09 AM	60834

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: **2106A61**
Date Reported: **6/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106A61
Project: Gerard AW Battery

Lab ID: 2106A61-004 **Collection Date:** 6/17/2021 1:00:00 PM
Client Sample ID: TP1-20 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	9000	300		mg/Kg	100	6/27/2021 12:26:27 AM	60891
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/26/2021 9:37:28 AM	60871
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/26/2021 9:37:28 AM	60871
Surr: DNOP	75.7	70-130		%Rec	1	6/26/2021 9:37:28 AM	60871
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/27/2021 2:02:48 AM	60834
Surr: BFB	106	70-130		%Rec	1	6/27/2021 2:02:48 AM	60834
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/27/2021 2:02:48 AM	60834
Toluene	ND	0.047		mg/Kg	1	6/27/2021 2:02:48 AM	60834
Ethylbenzene	ND	0.047		mg/Kg	1	6/27/2021 2:02:48 AM	60834
Xylenes, Total	ND	0.095		mg/Kg	1	6/27/2021 2:02:48 AM	60834
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	6/27/2021 2:02:48 AM	60834

Lab ID: 2106A61-005 **Collection Date:** 6/17/2021 1:25:00 PM
Client Sample ID: TP2-S **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	ND	60		mg/Kg	20	6/25/2021 12:01:06 AM	60891
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/26/2021 10:01:52 AM	60871
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/26/2021 10:01:52 AM	60871
Surr: DNOP	72.7	70-130		%Rec	1	6/26/2021 10:01:52 AM	60871
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/27/2021 2:26:20 AM	60834
Surr: BFB	220	70-130	S	%Rec	1	6/27/2021 2:26:20 AM	60834
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/27/2021 2:26:20 AM	60834
Toluene	ND	0.048		mg/Kg	1	6/27/2021 2:26:20 AM	60834
Ethylbenzene	ND	0.048		mg/Kg	1	6/27/2021 2:26:20 AM	60834
Xylenes, Total	ND	0.096		mg/Kg	1	6/27/2021 2:26:20 AM	60834
Surr: 4-Bromofluorobenzene	229	70-130	S	%Rec	1	6/27/2021 2:26:20 AM	60834

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: **2106A61**
Date Reported: **6/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106A61
Project: Gerard AW Battery

Lab ID: 2106A61-006 **Collection Date:** 6/17/2021 1:30:00 PM
Client Sample ID: TP2-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	63	60		mg/Kg	20	6/25/2021 12:13:30 AM	60891
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/26/2021 10:26:07 AM	60871
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/26/2021 10:26:07 AM	60871
Surr: DNOP	73.0	70-130		%Rec	1	6/26/2021 10:26:07 AM	60871
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/27/2021 2:49:58 AM	60834
Surr: BFB	101	70-130		%Rec	1	6/27/2021 2:49:58 AM	60834
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/27/2021 2:49:58 AM	60834
Toluene	ND	0.049		mg/Kg	1	6/27/2021 2:49:58 AM	60834
Ethylbenzene	ND	0.049		mg/Kg	1	6/27/2021 2:49:58 AM	60834
Xylenes, Total	ND	0.097		mg/Kg	1	6/27/2021 2:49:58 AM	60834
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/27/2021 2:49:58 AM	60834

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: **2106A61**
Date Reported: **6/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106A61
Project: Gerard AW Battery

Lab ID: 2106A61-007 **Collection Date:** 6/17/2021 1:40:00 PM
Client Sample ID: TP3-S **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	ND	60		mg/Kg	20	6/25/2021 12:25:54 AM	60891
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	16	9.9		mg/Kg	1	6/26/2021 11:30:56 PM	60871
Motor Oil Range Organics (MRO)	110	50		mg/Kg	1	6/26/2021 11:30:56 PM	60871
Surr: DNOP	125	70-130		%Rec	1	6/26/2021 11:30:56 PM	60871
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/27/2021 3:13:35 AM	60834
Surr: BFB	105	70-130		%Rec	1	6/27/2021 3:13:35 AM	60834
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/27/2021 3:13:35 AM	60834
Toluene	ND	0.047		mg/Kg	1	6/27/2021 3:13:35 AM	60834
Ethylbenzene	ND	0.047		mg/Kg	1	6/27/2021 3:13:35 AM	60834
Xylenes, Total	ND	0.095		mg/Kg	1	6/27/2021 3:13:35 AM	60834
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	6/27/2021 3:13:35 AM	60834

Lab ID: 2106A61-008 **Collection Date:** 6/17/2021 1:45:00 PM
Client Sample ID: TP3-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	150	60		mg/Kg	20	6/26/2021 12:14:06 PM	60940
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/26/2021 11:14:31 AM	60871
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/26/2021 11:14:31 AM	60871
Surr: DNOP	91.0	70-130		%Rec	1	6/26/2021 11:14:31 AM	60871
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/27/2021 5:35:14 AM	60834
Surr: BFB	105	70-130		%Rec	1	6/27/2021 5:35:14 AM	60834
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/27/2021 5:35:14 AM	60834
Toluene	ND	0.047		mg/Kg	1	6/27/2021 5:35:14 AM	60834
Ethylbenzene	ND	0.047		mg/Kg	1	6/27/2021 5:35:14 AM	60834
Xylenes, Total	ND	0.094		mg/Kg	1	6/27/2021 5:35:14 AM	60834
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	6/27/2021 5:35:14 AM	60834

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: **2106A61**
Date Reported: **6/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106A61
Project: Gerard AW Battery

Lab ID: 2106A61-009 **Collection Date:** 6/17/2021 2:05:00 PM
Client Sample ID: TP4-S **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	6/26/2021 12:51:19 PM	60940
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/26/2021 11:38:48 AM	60871
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/26/2021 11:38:48 AM	60871
Surr: DNOP	55.6	70-130	S	%Rec	1	6/26/2021 11:38:48 AM	60871
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/27/2021 5:58:46 AM	60834
Surr: BFB	102	70-130		%Rec	1	6/27/2021 5:58:46 AM	60834
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/27/2021 5:58:46 AM	60834
Toluene	ND	0.048		mg/Kg	1	6/27/2021 5:58:46 AM	60834
Ethylbenzene	ND	0.048		mg/Kg	1	6/27/2021 5:58:46 AM	60834
Xylenes, Total	ND	0.096		mg/Kg	1	6/27/2021 5:58:46 AM	60834
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	6/27/2021 5:58:46 AM	60834

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: **2106A61**
Date Reported: **6/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106A61
Project: Gerard AW Battery

Lab ID: 2106A61-010 **Collection Date:** 6/17/2021 2:10:00 PM
Client Sample ID: TP4-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	66	60		mg/Kg	20	6/26/2021 1:03:44 PM	60940
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/25/2021 12:36:45 AM	60872
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/25/2021 12:36:45 AM	60872
Surr: DNOP	53.5	70-130	S	%Rec	1	6/25/2021 12:36:45 AM	60872
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/27/2021 6:22:20 AM	60834
Surr: BFB	103	70-130		%Rec	1	6/27/2021 6:22:20 AM	60834
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/27/2021 6:22:20 AM	60834
Toluene	ND	0.046		mg/Kg	1	6/27/2021 6:22:20 AM	60834
Ethylbenzene	ND	0.046		mg/Kg	1	6/27/2021 6:22:20 AM	60834
Xylenes, Total	ND	0.093		mg/Kg	1	6/27/2021 6:22:20 AM	60834
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	6/27/2021 6:22:20 AM	60834

Lab ID: 2106A61-011 **Collection Date:** 6/17/2021 2:20:00 PM
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	5200	150		mg/Kg	50	6/28/2021 9:59:48 AM	60940
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	14	9.6		mg/Kg	1	6/25/2021 1:50:01 AM	60872
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/25/2021 1:50:01 AM	60872
Surr: DNOP	88.3	70-130		%Rec	1	6/25/2021 1:50:01 AM	60872
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/27/2021 6:45:53 AM	60834
Surr: BFB	102	70-130		%Rec	1	6/27/2021 6:45:53 AM	60834
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/27/2021 6:45:53 AM	60834
Toluene	ND	0.050		mg/Kg	1	6/27/2021 6:45:53 AM	60834
Ethylbenzene	ND	0.050		mg/Kg	1	6/27/2021 6:45:53 AM	60834
Xylenes, Total	ND	0.10		mg/Kg	1	6/27/2021 6:45:53 AM	60834
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	6/27/2021 6:45:53 AM	60834

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: **2106A61**
Date Reported: **6/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106A61
Project: Gerard AW Battery

Lab ID: 2106A61-012 **Collection Date:** 6/17/2021 2:40:00 PM
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	3400	150		mg/Kg	50	6/28/2021 10:12:13 AM	60940
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/25/2021 2:14:27 AM	60872
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/25/2021 2:14:27 AM	60872
Surr: DNOP	73.6	70-130		%Rec	1	6/25/2021 2:14:27 AM	60872
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/27/2021 7:09:28 AM	60834
Surr: BFB	101	70-130		%Rec	1	6/27/2021 7:09:28 AM	60834
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	6/27/2021 7:09:28 AM	60834
Toluene	ND	0.046		mg/Kg	1	6/27/2021 7:09:28 AM	60834
Ethylbenzene	ND	0.046		mg/Kg	1	6/27/2021 7:09:28 AM	60834
Xylenes, Total	ND	0.093		mg/Kg	1	6/27/2021 7:09:28 AM	60834
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	6/27/2021 7:09:28 AM	60834

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: **2106A61**
Date Reported: **6/30/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106A61
Project: Gerard AW Battery

Lab ID: 2106A61-013 **Collection Date:** 6/17/2021 3:00:00 PM
Client Sample ID: TP5-14 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	2100	60		mg/Kg	20	6/26/2021 2:05:48 PM	60940
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/25/2021 3:03:27 AM	60872
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/25/2021 3:03:27 AM	60872
Surr: DNOP	72.7	70-130		%Rec	1	6/25/2021 3:03:27 AM	60872
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/27/2021 7:33:04 AM	60834
Surr: BFB	102	70-130		%Rec	1	6/27/2021 7:33:04 AM	60834
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/27/2021 7:33:04 AM	60834
Toluene	ND	0.050		mg/Kg	1	6/27/2021 7:33:04 AM	60834
Ethylbenzene	ND	0.050		mg/Kg	1	6/27/2021 7:33:04 AM	60834
Xylenes, Total	ND	0.099		mg/Kg	1	6/27/2021 7:33:04 AM	60834
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	6/27/2021 7:33:04 AM	60834

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#: **2106A61**
30-Jun-21

Client: GHD
Project: Gerard AW Battery

Sample ID: **MB-60891**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **60891**	RunNo: **79336**
Prep Date: **6/24/2021**	Analysis Date: **6/24/2021**	SeqNo: **2788070** Units: **mg/Kg**

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

Sample ID: **LCS-60891**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **60891**	RunNo: **79336**
Prep Date: **6/24/2021**	Analysis Date: **6/24/2021**	SeqNo: **2788071** 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			

Sample ID: **MB-60940**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **60940**	RunNo: **79397**
Prep Date: **6/25/2021**	Analysis Date: **6/26/2021**	SeqNo: **2790645** Units: **mg/Kg**

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

Sample ID: **LCS-60940**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **60940**	RunNo: **79397**
Prep Date: **6/25/2021**	Analysis Date: **6/26/2021**	SeqNo: **2790647** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.8	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#: **2106A61**
30-Jun-21

Client: GHD
Project: Gerard AW Battery

Sample ID: **LCS-60867**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **60867**	RunNo: **79325**							
Prep Date: **6/23/2021**	Analysis Date: **6/24/2021**	SeqNo: **2787407**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		85.6	70	130			

Sample ID: **LCS-60872**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **60872**	RunNo: **79325**							
Prep Date: **6/23/2021**	Analysis Date: **6/25/2021**	SeqNo: **2787408**	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	91.3	68.9	141			
Surr: DNOP	4.0		5.000		79.7	70	130			

Sample ID: **MB-60867**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **60867**	RunNo: **79325**							
Prep Date: **6/23/2021**	Analysis Date: **6/24/2021**	SeqNo: **2787409**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.7		10.00		86.7	70	130			

Sample ID: **MB-60872**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **60872**	RunNo: **79325**							
Prep Date: **6/23/2021**	Analysis Date: **6/24/2021**	SeqNo: **2787410**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		93.6	70	130			

Sample ID: **2106A61-010AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **TP4-2**	Batch ID: **60872**	RunNo: **79325**							
Prep Date: **6/23/2021**	Analysis Date: **6/25/2021**	SeqNo: **2787418**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	10	50.35	0	71.9	15	184			
Surr: DNOP	2.3		5.035		45.9	70	130			S

Sample ID: **2106A61-010AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **TP4-2**	Batch ID: **60872**	RunNo: **79325**							
Prep Date: **6/23/2021**	Analysis Date: **6/25/2021**	SeqNo: **2787419**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	33	9.8	48.97	0	67.2	15	184	9.48	23.9	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
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#: **2106A61**
30-Jun-21

Client: GHD
Project: Gerard AW Battery

Sample ID: **2106A61-010AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **TP4-2**	Batch ID: **60872**	RunNo: **79325**
Prep Date: **6/23/2021**	Analysis Date: **6/25/2021**	SeqNo: **2787419** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	1.9		4.897		38.5	70	130	0	0	S

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: **LCS-60871**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **60871**	RunNo: **79325**
Prep Date: **6/23/2021**	Analysis Date: **6/26/2021**	SeqNo: **2789215** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.2	68.9	141			
Surr: DNOP	3.7		5.000		73.3	70	130			

Sample ID: **LCS-60876**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **60876**	RunNo: **79325**
Prep Date: **6/23/2021**	Analysis Date: **6/25/2021**	SeqNo: **2789216** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		83.2	70	130			

Sample ID: **MB-60871**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **60871**	RunNo: **79325**
Prep Date: **6/23/2021**	Analysis Date: **6/26/2021**	SeqNo: **2789217** 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	8.0		10.00		79.6	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
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#: **2106A61**
30-Jun-21

Client: GHD
Project: Gerard AW Battery

Sample ID: **MB-60876**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **60876**	RunNo: **79325**							
Prep Date: **6/23/2021**	Analysis Date: **6/25/2021**	SeqNo: **2789218**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.3		10.00		92.6	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			

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			

Sample ID: **MB-60915**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **60915**	RunNo: **79325**							
Prep Date: **6/24/2021**	Analysis Date: **6/26/2021**	SeqNo: **2789501**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		98.4	70	130			

Sample ID: **MB-60900**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **60900**	RunNo: **79325**							
Prep Date: **6/24/2021**	Analysis Date: **6/26/2021**	SeqNo: **2789502**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.4		10.00		93.6	70	130			

Sample ID: **LCS-60915**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **60915**	RunNo: **79325**							
Prep Date: **6/24/2021**	Analysis Date: **6/26/2021**	SeqNo: **2789503**	Units: **%Rec**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		93.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
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#: **2106A61**
30-Jun-21

Client: GHD
Project: Gerard AW Battery

Sample ID: **LCS-60900** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **60900** RunNo: **79325**
Prep Date: **6/24/2021** Analysis Date: **6/26/2021** SeqNo: **2789504** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		85.2	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106A61**
30-Jun-21

Client: GHD
Project: Gerard AW Battery

Sample ID: **mb-60834**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **60834**	RunNo: **79388**
Prep Date: **6/22/2021**	Analysis Date: **6/26/2021**	SeqNo: **2790058** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		106	70	130			

Sample ID: **lcs-60834**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **60834**	RunNo: **79388**
Prep Date: **6/22/2021**	Analysis Date: **6/26/2021**	SeqNo: **2790059** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	78.6	131			
Surr: BFB	1100		1000		115	70	130			

Sample ID: **mb-60841**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **60841**	RunNo: **79388**
Prep Date: **6/22/2021**	Analysis Date: **6/27/2021**	SeqNo: **2790082** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		102	70	130			

Sample ID: **lcs-60841**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **60841**	RunNo: **79388**
Prep Date: **6/22/2021**	Analysis Date: **6/27/2021**	SeqNo: **2790083** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		113	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#: **2106A61**
30-Jun-21

Client: GHD
Project: Gerard AW Battery

Sample ID: **mb-60834** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **60834** RunNo: **79388**
Prep Date: **6/22/2021** Analysis Date: **6/26/2021** SeqNo: **2790116** 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		109	70	130			

Sample ID: **LCS-60834** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **60834** RunNo: **79388**
Prep Date: **6/22/2021** Analysis Date: **6/26/2021** SeqNo: **2790117** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	108	80	120			
Toluene	1.1	0.050	1.000	0	110	80	120			
Ethylbenzene	1.1	0.050	1.000	0	108	80	120			
Xylenes, Total	3.3	0.10	3.000	0	110	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		111	70	130			

Sample ID: **mb-60841** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **60841** RunNo: **79388**
Prep Date: **6/22/2021** Analysis Date: **6/27/2021** SeqNo: **2790140** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Sample ID: **LCS-60841** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **60841** RunNo: **79388**
Prep Date: **6/22/2021** Analysis Date: **6/27/2021** SeqNo: **2790141** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		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
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: **2106A61** RcptNo: **1**

Received By: **Desiree Dominguez** **6/19/2021 8:40:00 AM** DD

Completed By: **Desiree Dominguez** **6/19/2021 10:05:56 AM** DD

Reviewed By: JR 6/21/21

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: DAD 6.19.21

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	2.7	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:

Gerard AW B. Hay

Project #:

1122876

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 2.4+0.3=2.7°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. 2106A61	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 4500
6/17/21	1000	S	TP1-2	Jar		-001	X	X									X
	1030		TP1-10			-002											
	1040		TP1-14			-003											
	1300		TP1-20			-004											
	1325		TP2-5			-005											
	1330		TP2-2			-006											
	1340		TP3-5			-007											
	1345		TP3-2			-008											
	1405		TP4-5			-009											
	1410		TP4-2			-010											
	1420		TP5-2			-011											
	1440		TP5-10			-012											

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
6/18/21	0800	Zach Comino			6/18/21	800
6/18/21	1900			Courier	6.19.21	8:40

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

2 of 2

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: Gerard AGI Battery

Project #: 112E8976

Project Manager: Becky Haskell, Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 2.4+0.3=2.7°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. 2106A61	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
06/17/21	1500	S	TP5-14	Jar		-013	X	X									X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
06/18/21	0800	Zach Comino				
6/18/21	1900			Courier	6-19-21	8:48

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 02, 2021

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

RE: Gerard SW Battery OrderNo.: 2106B87

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 14 sample(s) on 6/23/2021 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: **2106B87**
Date Reported: **7/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106B87
Project: Gerard SW Battery

Lab ID: 2106B87-001 **Collection Date:** 6/21/2021 9:50:00 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	2300	150		mg/Kg	50	7/1/2021 5:37:39 AM	60993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/26/2021 7:05:14 PM	60915
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/26/2021 7:05:14 PM	60915
Surr: DNOP	81.1	70-130		%Rec	1	6/26/2021 7:05:14 PM	60915
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/29/2021 7:29:09 PM	60893
Surr: BFB	102	70-130		%Rec	1	6/29/2021 7:29:09 PM	60893
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/29/2021 7:29:09 PM	60893
Toluene	ND	0.048		mg/Kg	1	6/29/2021 7:29:09 PM	60893
Ethylbenzene	ND	0.048		mg/Kg	1	6/29/2021 7:29:09 PM	60893
Xylenes, Total	ND	0.095		mg/Kg	1	6/29/2021 7:29:09 PM	60893
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	6/29/2021 7:29:09 PM	60893

Lab ID: 2106B87-002 **Collection Date:** 6/21/2021 10:00:00 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	1100	60		mg/Kg	20	6/29/2021 4:26:31 PM	60993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/26/2021 7:29:37 PM	60915
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/26/2021 7:29:37 PM	60915
Surr: DNOP	82.6	70-130		%Rec	1	6/26/2021 7:29:37 PM	60915
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/29/2021 7:52:33 PM	60893
Surr: BFB	100	70-130		%Rec	1	6/29/2021 7:52:33 PM	60893
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/29/2021 7:52:33 PM	60893
Toluene	ND	0.048		mg/Kg	1	6/29/2021 7:52:33 PM	60893
Ethylbenzene	ND	0.048		mg/Kg	1	6/29/2021 7:52:33 PM	60893
Xylenes, Total	ND	0.097		mg/Kg	1	6/29/2021 7:52:33 PM	60893
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	6/29/2021 7:52:33 PM	60893

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: **2106B87**
Date Reported: **7/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106B87
Project: Gerard SW Battery

Lab ID: 2106B87-003 **Collection Date:** 6/21/2021 10:30:00 AM
Client Sample ID: TP6-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	6/29/2021 4:38:55 PM	60993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/28/2021 3:10:50 AM	60915
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/28/2021 3:10:50 AM	60915
Surr: DNOP	47.4	70-130	S	%Rec	1	6/28/2021 3:10:50 AM	60915
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	6/29/2021 9:03:12 PM	60893
Surr: BFB	99.6	70-130		%Rec	5	6/29/2021 9:03:12 PM	60893
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	6/29/2021 9:03:12 PM	60893
Toluene	ND	0.24		mg/Kg	5	6/29/2021 9:03:12 PM	60893
Ethylbenzene	ND	0.24		mg/Kg	5	6/29/2021 9:03:12 PM	60893
Xylenes, Total	ND	0.47		mg/Kg	5	6/29/2021 9:03:12 PM	60893
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	5	6/29/2021 9:03:12 PM	60893

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: **2106B87**
Date Reported: **7/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106B87
Project: Gerard SW Battery

Lab ID: 2106B87-004 **Collection Date:** 6/21/2021 10:35:00 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	ND	60		mg/Kg	20	6/29/2021 4:51:20 PM	60993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/26/2021 8:18:17 PM	60915
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/26/2021 8:18:17 PM	60915
Surr: DNOP	93.2	70-130		%Rec	1	6/26/2021 8:18:17 PM	60915
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/29/2021 9:26:41 PM	60893
Surr: BFB	99.2	70-130		%Rec	1	6/29/2021 9:26:41 PM	60893
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/29/2021 9:26:41 PM	60893
Toluene	ND	0.047		mg/Kg	1	6/29/2021 9:26:41 PM	60893
Ethylbenzene	ND	0.047		mg/Kg	1	6/29/2021 9:26:41 PM	60893
Xylenes, Total	ND	0.094		mg/Kg	1	6/29/2021 9:26:41 PM	60893
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/29/2021 9:26:41 PM	60893

Lab ID: 2106B87-005 **Collection Date:** 6/21/2021 10:50:00 AM
Client Sample ID: TP7-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	6/29/2021 5:03:45 PM	60993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/28/2021 6:48:54 AM	60915
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/28/2021 6:48:54 AM	60915
Surr: DNOP	42.7	70-130	S	%Rec	1	6/28/2021 6:48:54 AM	60915
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/29/2021 9:50:06 PM	60893
Surr: BFB	98.1	70-130		%Rec	1	6/29/2021 9:50:06 PM	60893
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/29/2021 9:50:06 PM	60893
Toluene	ND	0.048		mg/Kg	1	6/29/2021 9:50:06 PM	60893
Ethylbenzene	ND	0.048		mg/Kg	1	6/29/2021 9:50:06 PM	60893
Xylenes, Total	ND	0.096		mg/Kg	1	6/29/2021 9:50:06 PM	60893
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/29/2021 9:50:06 PM	60893

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: **2106B87**
Date Reported: **7/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106B87
Project: Gerard SW Battery

Lab ID: 2106B87-006 **Collection Date:** 6/21/2021 10:55:00 AM
Client Sample ID: TP7-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	59		mg/Kg	20	6/29/2021 4:09:23 PM	61012
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/26/2021 9:06:56 PM	60915
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/26/2021 9:06:56 PM	60915
Surr: DNOP	76.1	70-130		%Rec	1	6/26/2021 9:06:56 PM	60915
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/29/2021 10:13:33 PM	60893
Surr: BFB	101	70-130		%Rec	1	6/29/2021 10:13:33 PM	60893
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/29/2021 10:13:33 PM	60893
Toluene	ND	0.047		mg/Kg	1	6/29/2021 10:13:33 PM	60893
Ethylbenzene	ND	0.047		mg/Kg	1	6/29/2021 10:13:33 PM	60893
Xylenes, Total	ND	0.095		mg/Kg	1	6/29/2021 10:13:33 PM	60893
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	6/29/2021 10:13:33 PM	60893

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: **2106B87**
Date Reported: **7/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106B87
Project: Gerard SW Battery

Lab ID: 2106B87-007 **Collection Date:** 6/21/2021 11:00:00 AM
Client Sample ID: TP8-S **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	6/29/2021 4:21:47 PM	61012
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/28/2021 2:22:13 AM	60915
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/28/2021 2:22:13 AM	60915
Surr: DNOP	26.2	70-130	S	%Rec	1	6/28/2021 2:22:13 AM	60915
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/29/2021 10:37:04 PM	60893
Surr: BFB	100	70-130		%Rec	1	6/29/2021 10:37:04 PM	60893
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/29/2021 10:37:04 PM	60893
Toluene	ND	0.048		mg/Kg	1	6/29/2021 10:37:04 PM	60893
Ethylbenzene	ND	0.048		mg/Kg	1	6/29/2021 10:37:04 PM	60893
Xylenes, Total	ND	0.096		mg/Kg	1	6/29/2021 10:37:04 PM	60893
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	6/29/2021 10:37:04 PM	60893

Lab ID: 2106B87-008 **Collection Date:** 6/21/2021 11:05:00 AM
Client Sample ID: TP8-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	6/29/2021 4:34:12 PM	61012
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/26/2021 9:55:30 PM	60915
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/26/2021 9:55:30 PM	60915
Surr: DNOP	69.8	70-130	S	%Rec	1	6/26/2021 9:55:30 PM	60915
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/29/2021 11:00:28 PM	60893
Surr: BFB	100	70-130		%Rec	1	6/29/2021 11:00:28 PM	60893
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/29/2021 11:00:28 PM	60893
Toluene	ND	0.050		mg/Kg	1	6/29/2021 11:00:28 PM	60893
Ethylbenzene	ND	0.050		mg/Kg	1	6/29/2021 11:00:28 PM	60893
Xylenes, Total	ND	0.099		mg/Kg	1	6/29/2021 11:00:28 PM	60893
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	6/29/2021 11:00:28 PM	60893

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: **2106B87**
Date Reported: **7/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106B87
Project: Gerard SW Battery

Lab ID: 2106B87-009 **Collection Date:** 6/21/2021 11:15:00 AM
Client Sample ID: HA1-S **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	6/29/2021 4:46:36 PM	61012
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/28/2021 1:33:41 AM	60915
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/28/2021 1:33:41 AM	60915
Surr: DNOP	32.8	70-130	S	%Rec	1	6/28/2021 1:33:41 AM	60915
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/29/2021 11:23:56 PM	60893
Surr: BFB	98.0	70-130		%Rec	1	6/29/2021 11:23:56 PM	60893
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	6/29/2021 11:23:56 PM	60893
Toluene	ND	0.050		mg/Kg	1	6/29/2021 11:23:56 PM	60893
Ethylbenzene	ND	0.050		mg/Kg	1	6/29/2021 11:23:56 PM	60893
Xylenes, Total	ND	0.10		mg/Kg	1	6/29/2021 11:23:56 PM	60893
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/29/2021 11:23:56 PM	60893

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: **2106B87**
Date Reported: **7/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106B87
Project: Gerard SW Battery

Lab ID: 2106B87-010 **Collection Date:** 6/21/2021 11:20:00 AM
Client Sample ID: HA1-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	69	60		mg/Kg	20	6/29/2021 5:23:50 PM	61012
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	24	9.9		mg/Kg	1	6/28/2021 12:45:07 AM	60915
Motor Oil Range Organics (MRO)	63	50		mg/Kg	1	6/28/2021 12:45:07 AM	60915
Surr: DNOP	54.9	70-130	S	%Rec	1	6/28/2021 12:45:07 AM	60915
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	6/29/2021 11:47:29 PM	60893
Surr: BFB	99.5	70-130		%Rec	5	6/29/2021 11:47:29 PM	60893
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	6/29/2021 11:47:29 PM	60893
Toluene	ND	0.25		mg/Kg	5	6/29/2021 11:47:29 PM	60893
Ethylbenzene	ND	0.25		mg/Kg	5	6/29/2021 11:47:29 PM	60893
Xylenes, Total	ND	0.50		mg/Kg	5	6/29/2021 11:47:29 PM	60893
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	5	6/29/2021 11:47:29 PM	60893

Lab ID: 2106B87-011 **Collection Date:** 6/21/2021 12:20:00 PM
Client Sample ID: TP9-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	6/29/2021 5:36:15 PM	61012
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	2000	98		mg/Kg	10	6/26/2021 3:47:39 PM	60925
Motor Oil Range Organics (MRO)	1400	490		mg/Kg	10	6/26/2021 3:47:39 PM	60925
Surr: DNOP	0	70-130	S	%Rec	10	6/26/2021 3:47:39 PM	60925
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	11	9.7		mg/Kg	2	6/29/2021 10:34:00 PM	60919
Surr: BFB	113	70-130		%Rec	2	6/29/2021 10:34:00 PM	60919
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.049		mg/Kg	2	6/29/2021 10:34:00 PM	60919
Toluene	ND	0.097		mg/Kg	2	6/29/2021 10:34:00 PM	60919
Ethylbenzene	ND	0.097		mg/Kg	2	6/29/2021 10:34:00 PM	60919
Xylenes, Total	ND	0.19		mg/Kg	2	6/29/2021 10:34:00 PM	60919
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	2	6/29/2021 10:34:00 PM	60919

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: **2106B87**
Date Reported: **7/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106B87
Project: Gerard SW Battery

Lab ID: 2106B87-012 **Collection Date:** 6/21/2021 12:30:00 PM
Client Sample ID: TP9-8 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	61		mg/Kg	20	6/29/2021 5:48:39 PM	61012
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/26/2021 4:00:19 PM	60925
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/26/2021 4:00:19 PM	60925
Surr: DNOP	103	70-130		%Rec	1	6/26/2021 4:00:19 PM	60925
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/29/2021 11:33:00 PM	60919
Surr: BFB	115	70-130		%Rec	1	6/29/2021 11:33:00 PM	60919
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	6/29/2021 11:33:00 PM	60919
Toluene	ND	0.050		mg/Kg	1	6/29/2021 11:33:00 PM	60919
Ethylbenzene	ND	0.050		mg/Kg	1	6/29/2021 11:33:00 PM	60919
Xylenes, Total	ND	0.10		mg/Kg	1	6/29/2021 11:33:00 PM	60919
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	6/29/2021 11:33:00 PM	60919

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: **2106B87**
Date Reported: **7/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Lab Order:** 2106B87
Project: Gerard SW Battery

Lab ID: 2106B87-013 **Collection Date:** 6/21/2021 12:45:00 PM
Client Sample ID: TP9-14 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	160	61		mg/Kg	20	6/29/2021 6:01:03 PM	61012
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/26/2021 4:12:41 PM	60925
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/26/2021 4:12:41 PM	60925
Surr: DNOP	102	70-130		%Rec	1	6/26/2021 4:12:41 PM	60925
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/30/2021 12:33:00 AM	60919
Surr: BFB	94.0	70-130		%Rec	1	6/30/2021 12:33:00 AM	60919
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	6/30/2021 12:33:00 AM	60919
Toluene	ND	0.048		mg/Kg	1	6/30/2021 12:33:00 AM	60919
Ethylbenzene	ND	0.048		mg/Kg	1	6/30/2021 12:33:00 AM	60919
Xylenes, Total	ND	0.097		mg/Kg	1	6/30/2021 12:33:00 AM	60919
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	6/30/2021 12:33:00 AM	60919

Lab ID: 2106B87-014 **Collection Date:** 6/21/2021 1:00:00 PM
Client Sample ID: TP9-20 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	550	60		mg/Kg	20	6/29/2021 6:13:27 PM	61012
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/26/2021 4:25:14 PM	60925
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/26/2021 4:25:14 PM	60925
Surr: DNOP	103	70-130		%Rec	1	6/26/2021 4:25:14 PM	60925
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/30/2021 12:52:00 AM	60919
Surr: BFB	99.7	70-130		%Rec	1	6/30/2021 12:52:00 AM	60919
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	6/30/2021 12:52:00 AM	60919
Toluene	ND	0.048		mg/Kg	1	6/30/2021 12:52:00 AM	60919
Ethylbenzene	ND	0.048		mg/Kg	1	6/30/2021 12:52:00 AM	60919
Xylenes, Total	ND	0.097		mg/Kg	1	6/30/2021 12:52:00 AM	60919
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	6/30/2021 12:52:00 AM	60919

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: **2106B87**
Date Reported: **7/2/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	GHD	**Lab Order:**	2106B87
Project:	Gerard SW 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#: **2106B87**
02-Jul-21

Client: GHD
Project: Gerard SW Battery

Sample ID: **MB-60993**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **60993**	RunNo: **79428**							
Prep Date: **6/29/2021**	Analysis Date: **6/29/2021**	SeqNo: **2792934**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-60993**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **60993**	RunNo: **79428**							
Prep Date: **6/29/2021**	Analysis Date: **6/29/2021**	SeqNo: **2792935**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	90	110			

Sample ID: **MB-61012**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **61012**	RunNo: **79428**							
Prep Date: **6/29/2021**	Analysis Date: **6/30/2021**	SeqNo: **2793004**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-61012**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **61012**	RunNo: **79428**							
Prep Date: **6/29/2021**	Analysis Date: **6/30/2021**	SeqNo: **2793005**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.9	90	110			

Sample ID: **MB-61012**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **61012**	RunNo: **79443**							
Prep Date: **6/29/2021**	Analysis Date: **6/29/2021**	SeqNo: **2793801**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-61012**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **61012**	RunNo: **79443**							
Prep Date: **6/29/2021**	Analysis Date: **6/29/2021**	SeqNo: **2793802**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.5	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical 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#: **2106B87**
02-Jul-21

Client: GHD
Project: Gerard SW Battery

Sample ID: **MB-60915**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **60915**	RunNo: **79325**
Prep Date: **6/24/2021**	Analysis Date: **6/26/2021**	SeqNo: **2789501** 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	9.8		10.00		98.4	70	130			

Sample ID: **LCS-60915**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **60915**	RunNo: **79325**
Prep Date: **6/24/2021**	Analysis Date: **6/26/2021**	SeqNo: **2789503** 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	107	68.9	141			
Surr: DNOP	4.7		5.000		93.7	70	130			

Sample ID: **MB-60925**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **60925**	RunNo: **79364**
Prep Date: **6/25/2021**	Analysis Date: **6/26/2021**	SeqNo: **2789749** 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			

Sample ID: **LCS-60925**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **60925**	RunNo: **79364**
Prep Date: **6/25/2021**	Analysis Date: **6/26/2021**	SeqNo: **2789750** 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	98.0	68.9	141			
Surr: DNOP	5.6		5.000		112	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#: **2106B87**
02-Jul-21

Client: GHD
Project: Gerard SW Battery

Sample ID: **mb-60893**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **60893**	RunNo: **79456**							
Prep Date: **6/24/2021**	Analysis Date: **6/29/2021**	SeqNo: **2792789**	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-60893**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **60893**	RunNo: **79456**							
Prep Date: **6/24/2021**	Analysis Date: **6/29/2021**	SeqNo: **2792790**	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	106	78.6	131			
Surr: BFB	1100		1000		112	70	130			

Sample ID: **mb-60919**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **60919**	RunNo: **79458**							
Prep Date: **6/24/2021**	Analysis Date: **6/29/2021**	SeqNo: **2793254**	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		90.1	70	130			

Sample ID: **lcs-60919**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **60919**	RunNo: **79458**							
Prep Date: **6/24/2021**	Analysis Date: **6/29/2021**	SeqNo: **2793256**	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	1000		1000		104	70	130			

Sample ID: **2106B87-011ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **TP9-2**	Batch ID: **60919**	RunNo: **79458**							
Prep Date: **6/24/2021**	Analysis Date: **6/29/2021**	SeqNo: **2793258**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	9.7	24.18	10.77	83.1	61.3	114			
Surr: BFB	2300		1934		117	70	130			

Sample ID: **2106B87-011amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **TP9-2**	Batch ID: **60919**	RunNo: **79458**							
Prep Date: **6/24/2021**	Analysis Date: **6/29/2021**	SeqNo: **2793260**	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#: **2106B87**
02-Jul-21

Client: GHD
Project: Gerard SW Battery

Sample ID: **2106B87-011amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **TP9-2** Batch ID: **60919** RunNo: **79458**
Prep Date: **6/24/2021** Analysis Date: **6/29/2021** SeqNo: **2793260** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	9.4	23.61	10.77	79.0	61.3	114	4.74	20	
Surr: BFB	2300		1889		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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106B87**
02-Jul-21

Client: GHD
Project: Gerard SW Battery

Sample ID: **mb-60893** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **60893** RunNo: **79456**
Prep Date: **6/24/2021** Analysis Date: **6/29/2021** SeqNo: **2792832** 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		101	70	130			

Sample ID: **LCS-60893** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **60893** RunNo: **79456**
Prep Date: **6/24/2021** Analysis Date: **6/29/2021** SeqNo: **2792833** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	1.000	0	81.1	80	120			
Toluene	0.92	0.050	1.000	0	91.5	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: **mb-60919** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **60919** RunNo: **79458**
Prep Date: **6/24/2021** Analysis Date: **6/29/2021** SeqNo: **2793306** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		91.1	70	130			

Sample ID: **lcs-60919** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **60919** RunNo: **79458**
Prep Date: **6/24/2021** Analysis Date: **6/29/2021** SeqNo: **2793308** 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	102	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	105	80	120			
Xylenes, Total	3.2	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.2	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2106B87**
02-Jul-21

Client: GHD
Project: Gerard SW Battery

Sample ID: **2106B87-012ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP9-8** Batch ID: **60919** RunNo: **79458**
Prep Date: **6/24/2021** Analysis Date: **6/29/2021** SeqNo: **2793310** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	0.9911	0	96.8	80	120			
Toluene	0.98	0.050	0.9911	0	98.4	80	120			
Ethylbenzene	1.0	0.050	0.9911	0	101	80	120			
Xylenes, Total	3.0	0.099	2.973	0.03500	99.8	80	120			
Surr: 4-Bromofluorobenzene	0.94		0.9911		95.3	70	130			

Sample ID: **2106B87-012amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP9-8** Batch ID: **60919** RunNo: **79458**
Prep Date: **6/24/2021** Analysis Date: **6/30/2021** SeqNo: **2793318** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9766	0	89.0	80	120	9.92	20	
Toluene	0.89	0.049	0.9766	0	90.7	80	120	9.57	20	
Ethylbenzene	0.91	0.049	0.9766	0	92.7	80	120	9.93	20	
Xylenes, Total	2.7	0.098	2.930	0.03500	91.3	80	120	10.2	20	
Surr: 4-Bromofluorobenzene	0.89		0.9766		90.9	70	130	0	0	

Qualifiers:

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

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: **2106B87** RcptNo: **1**

Received By: **Juan Rojas** **6/23/2021 7:30:00 AM**

Completed By: **Cheyenne Cason** **6/23/2021 8:14:02 AM**

Reviewed By: IO 6.23.21

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: RLC 6/23/21

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	5.3	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-dy

Project Name: Gerard AW Battery

Project #: 11228976

Project Manager:
Becky Haskell
Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 5.4-0.1=5.3

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. 2106387	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
06/21/21	0950	S	TP5-16	Jar		001	X	X									X
	1000		TP5-20			002											
	1030		TP6-S			003											
	1035		TP6-2			004											
	1050		TP7-S			005											
	1055		TP7-2			006											
	1100		TP8-S			007											
	1105		TP8-2			008											
	1115		HA1-S			009											
	1120		HA1-2			010											
	1220		TP9-2	6		011											
	1230		TP9-8			012											

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
06/22/21	0800	Zach Comino			6/22/21	800
6/22/21	1900			courier	6/23/21	7:30

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:

☒ Standard ☐ Rush 5-Dy

Project Name: Gerard ALW Battery

Project #: 1122876

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 5.4-0.1=5.3

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. 2106387	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
06/22/21	1245	S	TP9-14	Jar		013	X	X									X
"	1300	S	TP9-20	"		014	X	X									X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
06/22/21	0800	Zach Comino			6/22/21	800
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
				courier	6/23/21	7:30

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 20, 2021

Tom Larson
GHD Midland
2135 S Loop 250 W
Midland, TX 79703
TEL: (432) 686-0086
FAX

RE: Gerard AW Battery OrderNo.: 2107473

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 10 sample(s) on 7/10/2021 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: **2107473**
Date Reported: **7/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Lab Order:** 2107473
Project: Gerard AW Battery

Lab ID: 2107473-001 **Collection Date:** 7/8/2021 8:15:00 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	5800	300		mg/Kg	100	7/15/2021 7:26:53 PM	61289
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/14/2021 5:34:02 PM	61259
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/14/2021 5:34:02 PM	61259
Surr: DNOP	88.2	70-130		%Rec	1	7/14/2021 5:34:02 PM	61259
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/13/2021 5:48:30 PM	61241
Surr: BFB	101	70-130		%Rec	1	7/13/2021 5:48:30 PM	61241
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	7/13/2021 5:48:30 PM	61241
Toluene	ND	0.047		mg/Kg	1	7/13/2021 5:48:30 PM	61241
Ethylbenzene	ND	0.047		mg/Kg	1	7/13/2021 5:48:30 PM	61241
Xylenes, Total	ND	0.093		mg/Kg	1	7/13/2021 5:48:30 PM	61241
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/13/2021 5:48:30 PM	61241

Lab ID: 2107473-002 **Collection Date:** 7/8/2021 8:25:00 AM
Client Sample ID: TP10-8 **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	7/15/2021 7:39:18 PM	61289
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/14/2021 5:58:01 PM	61259
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/14/2021 5:58:01 PM	61259
Surr: DNOP	92.7	70-130		%Rec	1	7/14/2021 5:58:01 PM	61259
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/13/2021 6:12:22 PM	61241
Surr: BFB	99.4	70-130		%Rec	1	7/13/2021 6:12:22 PM	61241
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/13/2021 6:12:22 PM	61241
Toluene	ND	0.048		mg/Kg	1	7/13/2021 6:12:22 PM	61241
Ethylbenzene	ND	0.048		mg/Kg	1	7/13/2021 6:12:22 PM	61241
Xylenes, Total	ND	0.097		mg/Kg	1	7/13/2021 6:12:22 PM	61241
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/13/2021 6:12:22 PM	61241

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: **2107473**
Date Reported: **7/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Lab Order:** 2107473
Project: Gerard AW Battery

Lab ID: 2107473-003 **Collection Date:** 7/8/2021 8:40:00 AM
Client Sample ID: TP10-15 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	6500	300		mg/Kg	100	7/15/2021 7:51:43 PM	61289
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	7/14/2021 6:21:58 PM	61259
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/14/2021 6:21:58 PM	61259
Surr: DNOP	94.2	70-130		%Rec	1	7/14/2021 6:21:58 PM	61259
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2021 6:36:19 PM	61241
Surr: BFB	103	70-130		%Rec	1	7/13/2021 6:36:19 PM	61241
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/13/2021 6:36:19 PM	61241
Toluene	ND	0.049		mg/Kg	1	7/13/2021 6:36:19 PM	61241
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2021 6:36:19 PM	61241
Xylenes, Total	ND	0.097		mg/Kg	1	7/13/2021 6:36:19 PM	61241
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	7/13/2021 6:36:19 PM	61241

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: **2107473**
Date Reported: **7/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Lab Order:** 2107473
Project: Gerard AW Battery

Lab ID: 2107473-004 **Collection Date:** 7/8/2021 8:50:00 AM
Client Sample ID: TP10-20 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	4400	150		mg/Kg	50	7/15/2021 8:04:08 PM	61289
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/14/2021 6:45:54 PM	61259
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/14/2021 6:45:54 PM	61259
Surr: DNOP	95.1	70-130		%Rec	1	7/14/2021 6:45:54 PM	61259
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2021 7:00:17 PM	61241
Surr: BFB	98.3	70-130		%Rec	1	7/13/2021 7:00:17 PM	61241
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/13/2021 7:00:17 PM	61241
Toluene	ND	0.049		mg/Kg	1	7/13/2021 7:00:17 PM	61241
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2021 7:00:17 PM	61241
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2021 7:00:17 PM	61241
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/13/2021 7:00:17 PM	61241

Lab ID: 2107473-005 **Collection Date:** 7/8/2021 9:00:00 AM
Client Sample ID: TP11-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	7000	300		mg/Kg	100	7/15/2021 8:16:32 PM	61289
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/14/2021 1:06:05 PM	61260
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/14/2021 1:06:05 PM	61260
Surr: DNOP	75.8	70-130		%Rec	1	7/14/2021 1:06:05 PM	61260
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2021 9:22:36 PM	61244
Surr: BFB	97.2	70-130		%Rec	1	7/13/2021 9:22:36 PM	61244
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	7/13/2021 9:22:36 PM	61244
Toluene	ND	0.049		mg/Kg	1	7/13/2021 9:22:36 PM	61244
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2021 9:22:36 PM	61244
Xylenes, Total	ND	0.099		mg/Kg	1	7/13/2021 9:22:36 PM	61244
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/13/2021 9:22:36 PM	61244

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: **2107473**
Date Reported: **7/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Lab Order:** 2107473
Project: Gerard AW Battery

Lab ID: 2107473-006 **Collection Date:** 7/8/2021 9:30:00 AM
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	4700	150		mg/Kg	50	7/15/2021 8:28:57 PM	61289
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/14/2021 2:19:11 PM	61260
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/14/2021 2:19:11 PM	61260
Surr: DNOP	79.9	70-130		%Rec	1	7/14/2021 2:19:11 PM	61260
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/13/2021 10:33:29 PM	61244
Surr: BFB	99.1	70-130		%Rec	1	7/13/2021 10:33:29 PM	61244
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/13/2021 10:33:29 PM	61244
Toluene	ND	0.049		mg/Kg	1	7/13/2021 10:33:29 PM	61244
Ethylbenzene	ND	0.049		mg/Kg	1	7/13/2021 10:33:29 PM	61244
Xylenes, Total	ND	0.098		mg/Kg	1	7/13/2021 10:33:29 PM	61244
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	7/13/2021 10:33:29 PM	61244

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: **2107473**
Date Reported: **7/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Lab Order:** 2107473
Project: Gerard AW Battery

Lab ID: 2107473-007 **Collection Date:** 7/8/2021 9:40:00 AM
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	5200	150		mg/Kg	50	7/15/2021 8:41:21 PM	61289
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/14/2021 2:43:24 PM	61260
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/14/2021 2:43:24 PM	61260
Surr: DNOP	75.0	70-130		%Rec	1	7/14/2021 2:43:24 PM	61260
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/13/2021 11:44:18 PM	61244
Surr: BFB	97.9	70-130		%Rec	1	7/13/2021 11:44:18 PM	61244
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	7/13/2021 11:44:18 PM	61244
Toluene	ND	0.047		mg/Kg	1	7/13/2021 11:44:18 PM	61244
Ethylbenzene	ND	0.047		mg/Kg	1	7/13/2021 11:44:18 PM	61244
Xylenes, Total	ND	0.093		mg/Kg	1	7/13/2021 11:44:18 PM	61244
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/13/2021 11:44:18 PM	61244

Lab ID: 2107473-008 **Collection Date:** 7/8/2021 9:50:00 AM
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	5200	150		mg/Kg	50	7/15/2021 8:53:46 PM	61289
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/14/2021 3:07:44 PM	61260
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/14/2021 3:07:44 PM	61260
Surr: DNOP	74.9	70-130		%Rec	1	7/14/2021 3:07:44 PM	61260
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2021 12:07:48 AM	61244
Surr: BFB	98.7	70-130		%Rec	1	7/14/2021 12:07:48 AM	61244
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/14/2021 12:07:48 AM	61244
Toluene	ND	0.048		mg/Kg	1	7/14/2021 12:07:48 AM	61244
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2021 12:07:48 AM	61244
Xylenes, Total	ND	0.095		mg/Kg	1	7/14/2021 12:07:48 AM	61244
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	7/14/2021 12:07:48 AM	61244

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: **2107473**
Date Reported: **7/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Lab Order:** 2107473
Project: Gerard AW Battery

Lab ID: 2107473-009 **Collection Date:** 7/8/2021 10:20:00 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	59		mg/Kg	20	7/15/2021 1:14:25 PM	61289
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/15/2021 12:04:44 PM	61260
Motor Oil Range Organics (MRO)	54	49		mg/Kg	1	7/15/2021 12:04:44 PM	61260
Surr: DNOP	83.8	70-130		%Rec	1	7/15/2021 12:04:44 PM	61260
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/14/2021 12:31:21 AM	61244
Surr: BFB	96.9	70-130		%Rec	1	7/14/2021 12:31:21 AM	61244
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	7/14/2021 12:31:21 AM	61244
Toluene	ND	0.047		mg/Kg	1	7/14/2021 12:31:21 AM	61244
Ethylbenzene	ND	0.047		mg/Kg	1	7/14/2021 12:31:21 AM	61244
Xylenes, Total	ND	0.094		mg/Kg	1	7/14/2021 12:31:21 AM	61244
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/14/2021 12:31:21 AM	61244

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: **2107473**
Date Reported: **7/20/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Lab Order:** 2107473
Project: Gerard AW Battery

Lab ID: 2107473-010 **Collection Date:** 7/8/2021 10:45:00 AM
Client Sample ID: TP12-2 **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	7/15/2021 1:26:50 PM	61289
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **BRM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/14/2021 4:20:51 PM	61260
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/14/2021 4:20:51 PM	61260
Surr: DNOP	79.0	70-130		%Rec	1	7/14/2021 4:20:51 PM	61260
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/14/2021 12:54:51 AM	61244
Surr: BFB	93.5	70-130		%Rec	1	7/14/2021 12:54:51 AM	61244
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	7/14/2021 12:54:51 AM	61244
Toluene	ND	0.048		mg/Kg	1	7/14/2021 12:54:51 AM	61244
Ethylbenzene	ND	0.048		mg/Kg	1	7/14/2021 12:54:51 AM	61244
Xylenes, Total	ND	0.096		mg/Kg	1	7/14/2021 12:54:51 AM	61244
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	7/14/2021 12:54:51 AM	61244

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#: **2107473**
20-Jul-21

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: **MB-61289**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **61289**	RunNo: **79791**							
Prep Date: **7/14/2021**	Analysis Date: **7/15/2021**	SeqNo: **2808308**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-61289**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **61289**	RunNo: **79791**							
Prep Date: **7/14/2021**	Analysis Date: **7/15/2021**	SeqNo: **2808309**	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
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#: **2107473**
20-Jul-21

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: **MB-61259**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **PBS**	Batch ID: **61259**	RunNo: **79789**							
Prep Date: **7/13/2021**	Analysis Date: **7/14/2021**	SeqNo: **2806762**	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		91.6	70	130			

Sample ID: **LCS-61259**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **61259**	RunNo: **79789**							
Prep Date: **7/13/2021**	Analysis Date: **7/14/2021**	SeqNo: **2806763**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.1	68.9	141			
Surr: DNOP	4.5		5.000		90.9	70	130			

Sample ID: **2107473-005AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **TP11-2**	Batch ID: **61260**	RunNo: **79808**							
Prep Date: **7/13/2021**	Analysis Date: **7/14/2021**	SeqNo: **2807036**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	9.6	48.08	0	77.0	15	184			
Surr: DNOP	2.9		4.808		59.4	70	130			S

Sample ID: **2107473-005AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **TP11-2**	Batch ID: **61260**	RunNo: **79808**							
Prep Date: **7/13/2021**	Analysis Date: **7/14/2021**	SeqNo: **2807037**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.6	48.08	0	88.3	15	184	13.7	23.9	
Surr: DNOP	3.1		4.808		65.1	70	130	0	0	S

Sample ID: **LCS-61260**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**							
Client ID: **LCSS**	Batch ID: **61260**	RunNo: **79808**							
Prep Date: **7/13/2021**	Analysis Date: **7/14/2021**	SeqNo: **2807054**	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	96.0	68.9	141			
Surr: DNOP	4.1		5.000		81.8	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
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#: **2107473**

20-Jul-21

Client: GHD Midland

Project: Gerard AW Battery

Sample ID: **MB-61260**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **61260**	RunNo: **79808**
Prep Date: **7/13/2021**	Analysis Date: **7/14/2021**	SeqNo: **2807055** 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		83.9	70	130			

Sample ID: **MB-61268**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **61268**	RunNo: **79790**
Prep Date: **7/13/2021**	Analysis Date: **7/14/2021**	SeqNo: **2807608** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.9		10.00		89.4	70	130			

Sample ID: **LCS-61268**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **61268**	RunNo: **79790**
Prep Date: **7/13/2021**	Analysis Date: **7/14/2021**	SeqNo: **2807609** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		83.6	70	130			

Sample ID: **MB-61275**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **61275**	RunNo: **79790**
Prep Date: **7/13/2021**	Analysis Date: **7/14/2021**	SeqNo: **2807632** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.8		10.00		88.4	70	130			

Sample ID: **LCS-61275**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **61275**	RunNo: **79790**
Prep Date: **7/13/2021**	Analysis Date: **7/14/2021**	SeqNo: **2807633** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		5.000		80.9	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#: **2107473**
20-Jul-21

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: **mb-61241**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **61241**	RunNo: **79767**							
Prep Date: **7/12/2021**	Analysis Date: **7/13/2021**	SeqNo: **2805977**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		96.1	70	130			

Sample ID: **lcs-61241**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **61241**	RunNo: **79767**							
Prep Date: **7/12/2021**	Analysis Date: **7/13/2021**	SeqNo: **2805978**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.0	78.6	131			
Surr: BFB	1100		1000		105	70	130			

Sample ID: **mb-61244**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **61244**	RunNo: **79767**							
Prep Date: **7/12/2021**	Analysis Date: **7/13/2021**	SeqNo: **2806001**	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		97.3	70	130			

Sample ID: **lcs-61244**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **61244**	RunNo: **79767**							
Prep Date: **7/12/2021**	Analysis Date: **7/13/2021**	SeqNo: **2806002**	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	98.7	78.6	131			
Surr: BFB	1100		1000		113	70	130			

Sample ID: **2107473-005ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **TP11-2**	Batch ID: **61244**	RunNo: **79767**							
Prep Date: **7/12/2021**	Analysis Date: **7/13/2021**	SeqNo: **2806004**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	24.90	0	118	61.3	114			S
Surr: BFB	1100		996.0		112	70	130			

Sample ID: **2107473-005amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **TP11-2**	Batch ID: **61244**	RunNo: **79767**							
Prep Date: **7/12/2021**	Analysis Date: **7/13/2021**	SeqNo: **2806005**	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#: **2107473**
20-Jul-21

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: **2107473-005amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **TP11-2** Batch ID: **61244** RunNo: **79767**
Prep Date: **7/12/2021** Analysis Date: **7/13/2021** SeqNo: **2806005** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.9	24.65	0	117	61.3	114	2.22	20	S
Surr: BFB	1100		986.2		108	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#: **2107473**
20-Jul-21

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: **mb-61241**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **61241**	RunNo: **79767**
Prep Date: **7/12/2021**	Analysis Date: **7/13/2021**	SeqNo: **2806025** 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		101	70	130			

Sample ID: **LCS-61241**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **61241**	RunNo: **79767**
Prep Date: **7/12/2021**	Analysis Date: **7/13/2021**	SeqNo: **2806026** 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	93.4	80	120			
Toluene	0.96	0.050	1.000	0	95.6	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: **mb-61244**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **61244**	RunNo: **79767**
Prep Date: **7/12/2021**	Analysis Date: **7/13/2021**	SeqNo: **2806049** 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		101	70	130			

Sample ID: **LCS-61244**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **61244**	RunNo: **79767**
Prep Date: **7/12/2021**	Analysis Date: **7/13/2021**	SeqNo: **2806050** 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	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.4	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		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#: **2107473**
20-Jul-21

Client: GHD Midland
Project: Gerard AW Battery

Sample ID: **2107473-006ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP11-8** Batch ID: **61244** RunNo: **79767**
Prep Date: **7/12/2021** Analysis Date: **7/13/2021** SeqNo: **2806053** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9588	0	109	80	120			
Toluene	1.1	0.048	0.9588	0	112	80	120			
Ethylbenzene	1.1	0.048	0.9588	0	113	80	120			
Xylenes, Total	3.3	0.096	2.876	0	114	80	120			
Surr: 4-Bromofluorobenzene	1.0		0.9588		105	70	130			

Sample ID: **2107473-006amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP11-8** Batch ID: **61244** RunNo: **79767**
Prep Date: **7/12/2021** Analysis Date: **7/13/2021** SeqNo: **2806054** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9823	0	109	80	120	2.54	20	
Toluene	1.1	0.049	0.9823	0	112	80	120	2.26	20	
Ethylbenzene	1.1	0.049	0.9823	0	113	80	120	2.38	20	
Xylenes, Total	3.3	0.098	2.947	0	113	80	120	1.93	20	
Surr: 4-Bromofluorobenzene	1.0		0.9823		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: **2107473** RcptNo: 1

Received By: **Cheyenne Cason** **7/10/2021 8:00:00 AM** CM

Completed By: **Cheyenne Cason** **7/10/2021 9:46:27 AM** CM

Reviewed By: DAD 7/12/21

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: CM 7/10/21

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	0.5	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: General ALJ Battery

Project #: 1122896

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 0.5-0.0.5

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. 2107473	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
07/8/21	0815	S	TP10-2	Jar		001	X	X								X
	0825		TP10-8			002										
	0840		TP10-15			003										
	0850		TP10-20			004										
	0900		TP11-2			005										
	0930		TP11-8			006										
	0940		TP11-15			007										
	0950		TP11-20			008										
	1020		TP12-5			009										
	1045		TP12-2			010										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
07/8/21	0800	Zach Comino	Cummings		7/9/21	800
7/9/21	1900	Cummings	Cec Corr		7/10/21	0800 0700

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

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 64101

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 64101
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Approved	12/20/2021