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	nAPP2127156622
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377
Contact Name Chase Settle	Contact Telephone 575-748-1471
Contact email Chase_Settle@eogresources.com	Incident # *(assigned by OCD)* nAPP2127156622
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

Location of Release Source

Latitude 32.81106 Longitude -104.47630
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Federal BQ Battery	Site Type Battery
Date Release Discovered 9/22/2021	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
C	27	17S	25E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☑ Private (*Name:* Gatewood, Paula Ruth & Richard)

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)	Volume Recovered (bbls)
☑ Produced Water	Volume Released (bbls) Unknown	Volume Recovered (bbls) 0
	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 were discovered during the decommissioning process of the battery. The environmental consultant contracted to investigate the area determined on 9/22/21 based on the impacted area footprint that the release more than likely breached the reportable volume threshold.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2127156622
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: 9/28/21

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

OCD Only

Received by: Ramona Marcus
Date: 10/01/2021

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2127156622
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?	215 (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 State of New Mexico
Page 4 Oil Conservation Division

Incident ID	nAPP2127156622
District RP	
Facility ID	
Application ID	

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

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

Signature: Chase Settle Date: 03/16/2022

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

OCD Only

Received by: _____ Date: _____

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2127156622
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

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

Signature: Chase Settle Date: 03/16/2022

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

OCD Only

Received by: _____ Date: _____

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

Signature: Jennifer Nobui Date: 03/22/2022

Incident ID	nAPP2127156622
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

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

☑ Description of remediation activities

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

Printed Name: Amber Griffin Title: Rep Safety & Environmental Sr

Signature: Amber Griffin Date: 6/17/2022

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

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Jennifer Nobui Date: 06/30/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

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

Our ref: 12563440

June 15, 2022

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

Re: Site Closure Report
EOG Resources Inc.
Incident ID: nAPP2127156622
C-27-17S-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 Closure Report to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of delineation, sampling, remedial activities, and analyses that was conducted in the affected area at the EOG Federal BQ Battery Release Site (Site). The Site is located in Unit Letter C, Section 27 of Township 17 South and Range 25 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.81106º N latitude and 104.47630º W longitude. The release occurred on land privately owned by Paula Ruth and Richard Gatewood. Figure 1 depicts the Site location. The EOG production facility and other site details are depicted on Figures 2 and 3.

2. Background Information

A C-141, Release Notification, for this release was submitted to the NMOCD on September 28, 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 decommissioning process associated with this location. Soils within the former tank battery containment appeared to be discolored. On September 22, 2021, GHD Services Inc. (GHD) was on Site to investigate if the stained soils constituted a reportable release. Based on the results of that investigation and after discussions between field personnel and environmental staff, EOG made the decision to file a C-141 for this suspect release location.

The release falls under the jurisdiction of the NMOCD District 2 Office in Artesia, New Mexico. The NMOCD assigned the release with Incident Number nAPP2127156622. A Site Characterization and Remediation Work Plan dated March 16, 2022 was submitted to the NMOCD. The NMOCD approved the Site Characterization and Remediation Work Plan on March 22, 2022 with no conditions. The Release Notification, Site

Assessment/Characterization, Remediation and Closure portions of Form C-141 are attached to the front of this report.

3. Groundwater and Site Characterization

GHD characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12). Depth to groundwater at the Site is estimated to be greater than one hundred (100) feet below ground surface based on the nearest water well data collected from the USGS National Water Information System: Mapper database. The nearest permitted well USGS 324831104283201 with depth to groundwater information is located approximately 0.18 miles south-southeast of the Site, with a depth to groundwater of 225.79 feet below ground surface as measured on January 15, 2015. No other receptors (karst potential areas, water wells, 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 of low karst potential 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 I in NMAC 19.15.29.12. The Site characterization documentation (Karst Potential, USGS Well Log, USGS Well Map, FEMA, Points of Diversion and Wetlands maps) are provided in Attachment A. 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)

Regulatory Standard	Chloride	TPH (GRO+DRO+MRO)	TPH (GRO+MRO)	BTEX	Benzene
19.15.29.13 Restoration, Reclamation and Re-Vegetation (Impacted Area 0-4 Feet)	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
Notes: --- = not defined					

4. Initial Soil Delineation Assessment Summary and Findings

Between September 30 and October 20, 2021, GHD and EOG's contractor Culberson Construction Energy Services (CCI) installed fifteen (15) test pits, TP1 through TP15, within the suspected impacted area. Soil samples were collected at depths ranging from surface to twenty (20) feet below ground surface. All soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, total petroleum hydrocarbons (TPH) by Method 8015B Modified, and chloride by EPA Method 300 by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico.

Two (2) of the fifteen (15) test pits had samples exceeding applicable NMAC Table I Closure Criteria for groundwater greater than one hundred (100) feet, TP4 and TP5. Additionally, five (5) of the test pits had samples exceeding 19.15.29.13 Closure Criteria for the top four (4) feet, TP1-2, TP2-2, TP3-2, TP6-2, and TP15-S. Figure 2, Site Assessment: Soil Analytical Results Map, 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.

On January 4, 2022, GHD and White Drilling Co. installed a soil boring SB-1 to eighty (80) feet below ground surface in order to vertically delineate the area around TP-4. Soil samples were collected in approximate five (5) foot intervals beginning at five (5) feet below ground surface, from SB-1. All soil samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300 by HEAL in Albuquerque, New Mexico. GRO (C6-C10), DRO (C10-C28), and Total TPH concentrations were delineated to below 1,000 mg kg and 2,500 mg/kg, respectively, at ten (10) feet below ground surface. The SB-1 Soil Boring Log is provided as Attachment C.

5. Excavation, Waste Management and Confirmation Sampling

Due to the initial soil sampling activities exhibiting TPH and chloride concentrations above NMAC 19.15.29.13 Closure Criteria and two (2) samples exhibiting TPH above Table I Closure Criteria, GHD and Standard Safety and Supply (SS) mobilized to the site on April 29, 2022, to excavate the affected soils. Excavation activities continued through May 5, 2022. The northern excavation measured approximately 6,215 square feet and was excavated to depths ranging from approximately four (4) to nineteen (19) feet below ground surface. The surface area of the southern excavation measured approximately 167 square feet and was excavated to a depth of approximately one and one-half (1.5) feet below ground surface. As shown on Figure 3, seventeen (17) sidewall (SW-1 through SW-15, SSW-1, and SSW-2) and thirty-three (33) bottom hole (BH-1 through BH-32 and SBH-1) composite confirmation samples were collected. Composite samples represented areas no larger than 200 square feet. All confirmation samples were taken to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Due to a laboratory error sidewall SW-14 could not be analyzed and was recollected on May 23, 2022 (discussed below). Analytical results indicated four (4) bottom hole confirmation and five (5) sidewall confirmation samples exhibited TPH concentrations above Table I Closure Criteria: BH-11, BH-15, BH-16, BH-24, SW-1, SW-3, SW-5, SW-7 and SW-12. Analytical results for confirmation samples are provided on Table 1, on Figure 3, and in the Laboratory Analytical Reports provided in Attachment D.

Due to confirmation sampling activities exhibiting TPH concentrations above Table I Closure Criteria, GHD and SS returned to the Site on May 17, 2022, to further excavate the affected areas. The areas around BH-11 and BH-24 were further excavated one-half (0.5) foot deeper to four and one-half (4.5) feet deep and resampled (BH-11A and BH-24A). The areas around BH-15 and BH-16 were excavated one-half (0.5) foot deeper to twelve and one-half (12.5) feet deep and resampled (BH-15A and BH-16A). The sidewalls with samples exhibiting TPH concentrations over Table I Closure Criteria were excavated further and resampled (SW-1A, SW-3A, SW-5A, and SW-12A). Preliminary laboratory data from initial excavation activities indicated an exceedance for sidewall sample SW-5, the final laboratory data indicated that the sample did not exceed Closure Criteria, however, the sidewall at the SW-5 location was excavated further and resampled prior to receiving the final Laboratory Analytical Report. Preliminary laboratory data also showed there was no exceedance for sample SW-7, however, final laboratory data indicated SW-7 did exhibit a TPH exceedance above Table I Closure Criteria (discussed below). Due to the initial SW-14 sample (collected May 5, 2022) not being analyzed due to a laboratory error, SW-14 was recollected during the May 23, 2022,

sampling activities. All samples were collected on May 23, 2022, and taken to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated one (1) sidewall confirmation sample exhibited TPH concentrations above Table I Closure Criteria: SW-1A. Analytical results for confirmation samples are provided on Table 1, on Figure 3, and in the Laboratory Analytical Reports provided in Attachment D.

Due to confirmation sampling activities exhibiting TPH concentrations above Table I Closure Criteria, GHD and SS returned to the Site on June 3, 2022, to further excavate the affected area. The sidewall at the SW-1A sample location was excavated further and resampled (SW-1B). Due to the final laboratory data indicating a TPH exceedance for SW-7, GHD and SS returned to the Site on June 10, 2022, to further excavate the affected area. The sidewall at the SW-7 location was excavated further and resampled (SW-7A). All confirmation samples were taken to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated BTEX, TPH, and chloride concentrations were below Table I Closure Criteria for all samples. Analytical results for confirmation samples are provided on Table 1, on Figure 3, and in the Laboratory Analytical Reports provided in Attachment D. A photographic log is included in Attachment C.

Waste Management activities were performed in coordination with EOG directives. EOG obtained regulatory approval via the successful processing of Form C-138 Request for Approval to Accept Solid Waste. The waste was approved for acceptance at the OCD-permitted (WM-1-035), Lea Land, LLC facility located at MM64, Highway 62/180 East, Carlsbad, NM, 88220. Approximately 2,617 tons of impacted soil were disposed at Lea Land, LLC, the waste manifests from April 21 through June 2, 2022, are available upon request and aren't included in this report due to size of the file. A Daily Disposal Summary is provided as Table 2. Confirmation Sampling Notifications are provided as Attachment D.

6. nAPP2127156622 Closure Request

The excavation will be backfilled with non-impacted material at a future date. Site characterization, soil delineation, and remediation activities for this incident number have been performed in accordance with applicable NMOCD guidance and regulations. Based upon supporting documentation provided in this report, GHD, on behalf of EOG, respectfully requests closure and no further regulatory actions for nAPP2127156622.

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

Sincerely,

GHD

Becky Haskell
Senior Project Manager

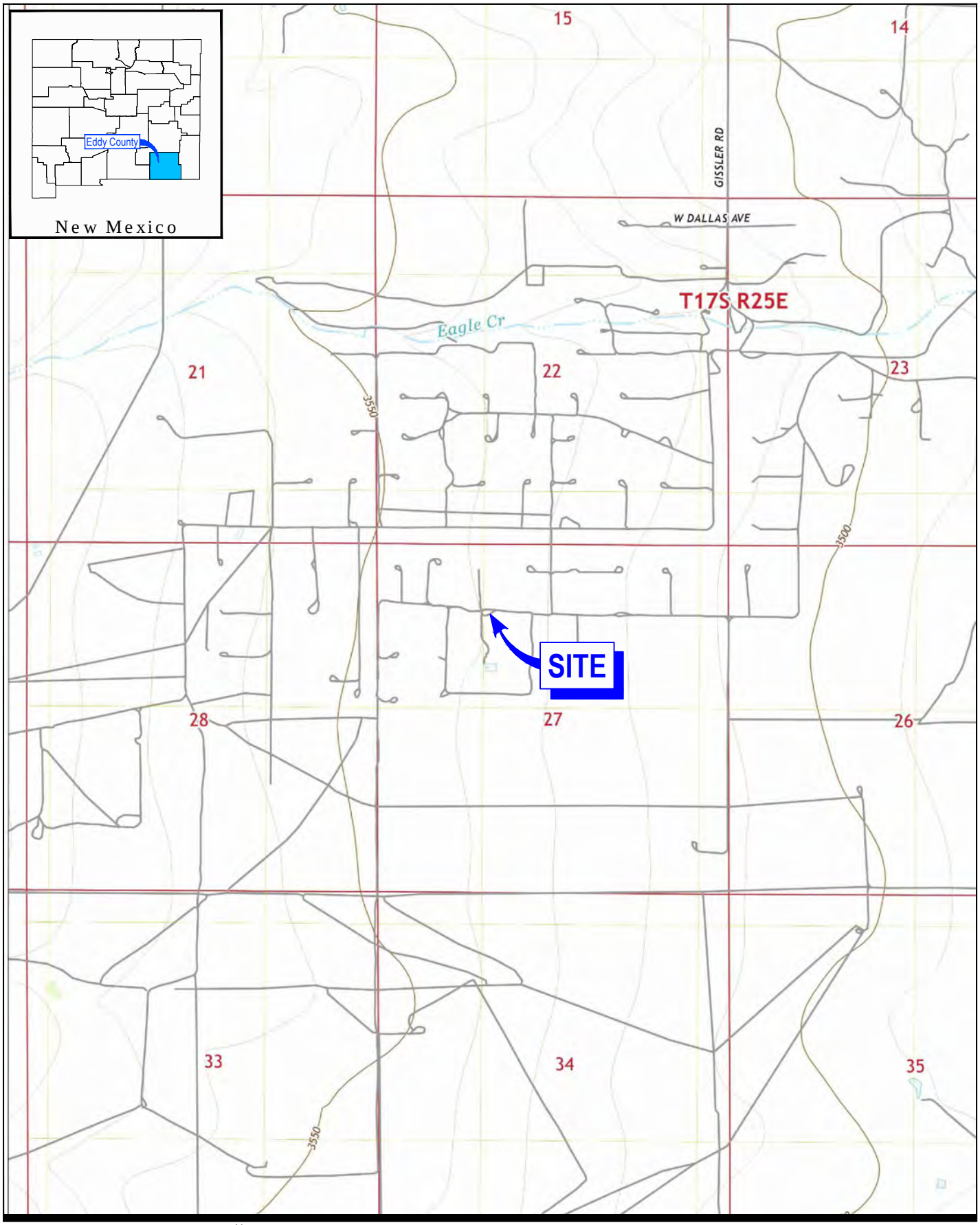
Nate Reece
Environmental Scientist

NR/bh/1

Encl. Figure 1 – Site Location Map
Figure 2 – Site Assessment: Soil Analytical Results Map
Figure 3 – Confirmation Sampling: Analytical Results Map
Table 1 – Summary of Soil Analytical Data
Table 2 – Daily Soil Disposal Summary
Attachment A – Site Characterization Documentation
Attachment B – SB-1 Soil Boring Log
Attachment C – Photographic Log
Attachment D – Confirmation Sampling Notifications
Attachment E – Laboratory Analytical Reports and Chain-of-Custody Documentation

cc: Chase Settle

Figures



0 1000 2000 ft

N

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

GHD

EOG RESOURCES
EDDY COUNTY, NEW MEXICO
FEDERAL BQ BATTERY

Project No. **12563440**
Date **February 2022**

SITE LOCATION MAP

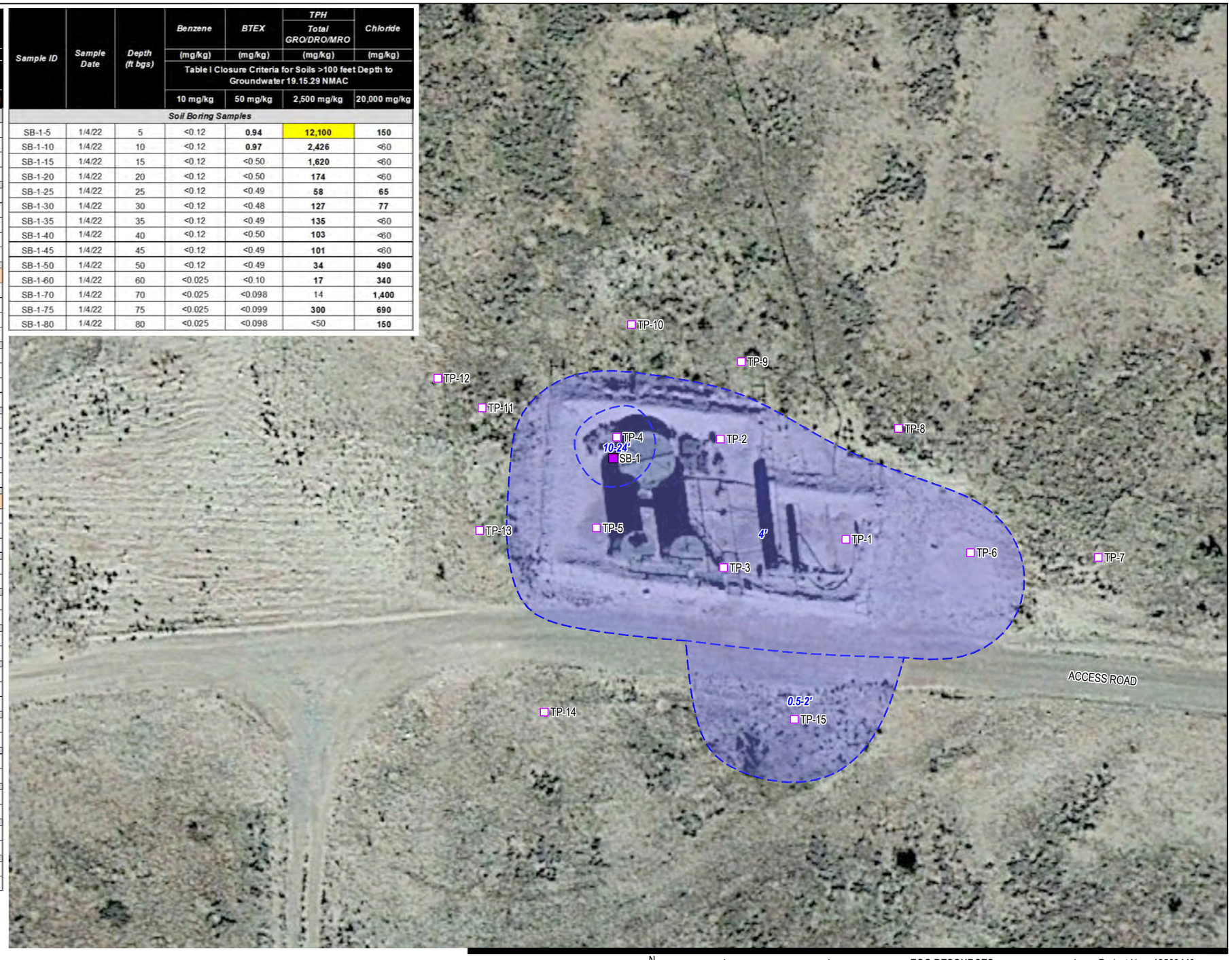
FIGURE 1

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12563440\Digital_Design\ACAD\Figures\RPT001\12563440-GHD-0000-RPT-EN-0101_DL-001.dwg

Data Source: USGS 7.5 Minute Quad "Artesia, New Mexico"
Lat/Long: 32.8110° North, 104.4762° West

Sample ID	Sample Date	Depth (ft bgs)	Benzene	BTEX	TPH Total GRO/DRO/MRO	Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC			
			10 mg/kg	50 mg/kg	2,500 mg/kg	20,000 mg/kg
Initial Assessment Samples - Test Pit						
TP1-2	9/30/21	2	<0.025	<0.098	**807**	**140**
TP1-6	9/30/21	6	<0.024	<0.096	<48	**930**
TP1-10	9/30/21	10	<0.025	<0.098	<44	**1,000**
TP1-12	9/30/21	12	<0.025	<0.098	<49	**350**
TP2-2	9/30/21	2	<0.024	<0.098	**1,850**	<59
TP2-10	10/14/21	10	<0.47	<1.9	**1,273**	**230**
TP2-12	10/14/21	12	<0.024	<0.096	**212**	**210**
TP2-15	10/14/21	15	<0.023	<0.094	**270**	**100**
TP2-19	10/14/21	19	<0.023	<0.093	**348**	**150**
TP3-2	9/30/21	2	<0.024	<0.098	**146**	**2,800**
TP3-6	9/30/21	6	<0.024	<0.096	<48	**830**
TP3-10	9/30/21	10	<0.025	<0.098	<47	**1,200**
TP3-16	9/30/21	16	<0.024	<0.097	<44	**820**
TP3-19	9/30/21	19	<0.025	<0.10	<50	**1,600**
TP4-2	9/30/21	2	<0.12	<0.49	**2,900**	<60
TP4-6	9/30/21	6	<0.49	**2.1**	**3,210**	<60
TP4-17	10/14/21	17	<0.46	**14.3**	**8,090**	**290**
TP4-20	10/14/21	20	**0.63**	**22.43**	**7,100**	**230**
TP5-2	9/30/21	2	<0.024	<0.097	<48	**360**
TP5-6	9/30/21	6	<0.12	<0.49	**1,791**	**340**
TP5-12	10/13/21	12	<0.023	**1.39**	**2,043**	**180**
TP5-16	10/13/21	16	<0.024	**0.433**	**379**	**280**
TP5-20	10/13/21	20	<0.024	**0.313**	**578**	**860**
TP6-2	10/20/21	2	<0.024	<0.096	<50	**2,700**
TP6-4	10/20/21	4	<0.025	<0.10	<49	**2,500**
TP6-8	10/20/21	8	<0.12	<0.49	<49	**1,500**
TP6-9	10/20/21	9	<0.024	<0.095	<44	**190**
TP7-S	10/20/21	Surface	<0.025	<0.098	<46	<60
TP7-2	10/20/21	2	<0.024	<0.096	<49	<60
TP8-S	10/20/21	Surface	<0.024	<0.097	<47	<59
TP8-2	10/20/21	2	<0.025	<0.099	<48	<60
TP9-S	10/20/21	Surface	<0.024	<0.098	<49	<60
TP9-2	10/20/21	2	<0.025	<0.099	<50	<60
TP10-S	10/20/21	Surface	<0.024	<0.097	<45	<60
TP10-2	10/20/21	2	<0.024	<0.096	<49	**150**
TP10-4	10/20/21	4	<0.025	<0.098	<50	<61
TP11-2	10/20/21	2	<0.023	<0.092	<48	**590**
TP11-4	10/20/21	4	<0.025	<0.099	<48	**270**
TP12-S	10/20/21	Surface	<0.024	<0.097	<49	<60
TP12-2	10/20/21	2	<0.025	<0.099	<47	<60
TP13-S	10/20/21	Surface	<0.023	<0.092	<50	<60
TP13-2	10/20/21	2	<0.025	<0.099	<49	**320**
TP14-S	10/20/21	Surface	<0.024	<0.0097	<49	<60
TP14-2	10/20/21	2	<0.024	<0.098	<49	<60
TP15-S	10/20/21	Surface	<0.023	<0.092	**298**	<60
TP15-2	10/20/21	2	<0.025	<0.099	<47	<60

Sample ID	Sample Date	Depth (ft bgs)	Benzene	BTEX	TPH Total GRO/DRO/MRO	Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC			
			10 mg/kg	50 mg/kg	2,500 mg/kg	20,000 mg/kg
Soil Boring Samples						
SB-1-5	1/4/22	5	<0.12	**0.94**	**12,100**	**150**
SB-1-10	1/4/22	10	<0.12	**0.97**	**2,426**	<60
SB-1-15	1/4/22	15	<0.12	<0.50	**1,620**	<60
SB-1-20	1/4/22	20	<0.12	<0.50	**174**	<60
SB-1-25	1/4/22	25	<0.12	<0.49	**58**	**65**
SB-1-30	1/4/22	30	<0.12	<0.48	**127**	**77**
SB-1-35	1/4/22	35	<0.12	<0.49	**135**	<60
SB-1-40	1/4/22	40	<0.12	<0.50	**103**	<60
SB-1-45	1/4/22	45	<0.12	<0.49	**101**	<60
SB-1-50	1/4/22	50	<0.12	<0.49	**34**	**490**
SB-1-60	1/4/22	60	<0.025	<0.10	**17**	**340**
SB-1-70	1/4/22	70	<0.025	<0.098	14	**1,400**
SB-1-75	1/4/22	75	<0.025	<0.099	**300**	**690**
SB-1-80	1/4/22	80	<0.025	<0.098	<50	**150**



LEGEND

- 4' — PROPOSED EXCAVATED AREA
- TEST PIT LOCATION
- SOIL BORING
- 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 15 30 ft

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

N

GHD

EOG RESOURCES
EDDY COUNTY, NEW MEXICO
FEDERAL BQ BATTERY

SITE ASSESSMENT:
SOIL ANALYTICAL RESULTS MAP

Project No. **12563440**
Date **June 2022**

FIGURE 2

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12563440\Digital_Design\ACAD\Figures\RPT001\12563440-GHD-0000-RPT-EN-0101_DL-001.dwg
Plot Date: 15 June 2022 3:56 PM

Data Source: Image © 2021 Google - Imagery Date: December 21, 2019
Lat/Long: 32.8110° North, 104.4762° West

Sample ID	Sample Date	Depth (ft bgs)	Benzene	BTEX	TPH Total GRO/DRO/MRO	Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC			
			10 mg/kg	50 mg/kg	2,500 mg/kg	20,000 mg/kg
Bottom Hole Confirmation Samples						
BH-1	4/29/22	4	<0.025	<0.098	<49	**74**
BH-2	4/29/22	4	<0.024	<0.0097	**178**	**2,300**
BH-3	4/29/22	4	<0.025	<0.10	**94**	**1,100**
BH-4	4/29/22	4	<0.025	<0.099	**460**	**160**
BH-5	4/29/22	4	<0.025	<0.10	<48	**1,700**
BH-6	4/29/22	4	<0.025	<0.10	<50	**500**
BH-7	4/29/22	4	<0.025	<0.099	**131**	**1,100**
BH-8	4/29/22	4	<0.025	<0.099	**250**	**3,500**
BH-9	4/29/22	4	<0.025	<0.099	**11**	**360**
BH-10	4/29/22	4-4.5'	<0.12	<0.50	**1,750**	**3,100**
BH-11	5/5/22	4	<0.12	<0.49	**4,500**	**390**
BH-11A	5/23/22	4.5	<0.019	<0.074	**48**	**1,300**
BH-12	5/5/22	12-12.5'	<0.12	<0.47	**141**	**290**
BH-13	5/5/22	12.12.5'	<0.024	<0.095	<49	**82**
BH-14	5/5/22	12	<0.024	<0.096	**33**	<60
BH-15	5/5/22	12	<0.12	<0.47	**4,445**	<60
BH-15A	5/23/22	12.5	<0.020	<0.078	**1,140**	**390**
BH-16	5/5/22	12	<0.023	<0.094	**2,800**	**840**
BH-16A	5/23/22	12.5	<0.019	<0.075	**56**	**1,700**
BH-17	5/5/22	4-4.5'	<0.023	<0.094	**169**	**960**
BH-18	5/5/22	6-12.5'	<0.025	<0.098	**390**	<60
BH-19	5/5/22	18-19	<0.024	<0.096	**660**	<60
BH-20	5/5/22	18-19	<0.023	<0.091	**175**	<60
BH-21	5/5/22	18-19	<0.12	**1.35**	**1,267**	**280**
BH-22	5/5/22	4-4.5'	<0.023	<0.094	**800**	**580**
BH-23	5/5/22	4-4.5'	<0.024	<0.095	**83**	**820**
BH-24	5/5/22	4	<0.025	<0.10	**3,200**	**1,300**
BH-24A	5/23/22	5	<0.020	<0.079	**219**	**1,400**
BH-25	5/5/22	4-4.5'	<0.025	<0.098	<48	**2,800**
BH-26	5/5/22	4	<0.025	<0.099	<49	**4,800**
BH-27	5/5/22	4	<0.025	<0.098	<47	**2,100**
BH-28	5/5/22	4-4.5'	<0.025	<0.099	<48	**1,700**
BH-29	5/5/22	4	<0.024	<0.096	<49	**520**
BH-30	5/5/22	4	<0.024	<0.095	**21**	**440**
BH-31	5/5/22	4	<0.024	<0.095	<49	**150**
BH-32	5/5/22	4	<0.024	<0.096	<50	**290**
SBH-1	5/5/22	Sidewall	<0.024	<0.098	<49	<60
Sidewall Confirmation Samples						
SW-1	4/29/22	Sidewall	<0.025	<0.098	**390**	**110**
SW-1A	5/23/22	Sidewall	<0.019	<0.077	**106**	<60
SW-1B	6/3/22	Sidewall	<0.025	<0.10	<50	<60
SW-2	4/29/22	Sidewall	<0.025	<0.098	<46	<60
SW-3	5/5/22	Sidewall	<0.11	<0.46	**3,700**	**3,900**
SW-3A	5/23/22	Sidewall	<0.020	<0.078	**161**	**6,000**
SW-4	5/5/22	Sidewall	<0.024	<0.096	**12**	**550**
SW-5	5/5/22	Sidewall	<0.025	<0.098	**97**	<60
SW-5A	5/23/22	Sidewall	<0.025	<0.10	<49	<60
SW-6	5/5/22	Sidewall	<0.024	<0.096	<49	<60
SW-7	5/5/22	Sidewall	<0.023	<0.092	**101**	<60
SW-7A	6/10/22	Sidewall	<0.025	<0.10	<49	<60
SW-8	5/5/22	Sidewall	<0.12	**2.17**	**543**	**430**
SW-9	5/5/22	Sidewall	<0.025	<0.098	**326**	**1,600**
SW-10	5/5/22	Sidewall	<0.12	<0.48	**1,270**	**2,100**
SW-11	5/5/22	Sidewall	<0.023	<0.093	<49	**210**
SW-12	5/5/22	Sidewall	<0.025	<0.099	**196**	<60
SW-12A	5/23/22	Sidewall	<0.021	<0.082	**92**	<59
SW-13	5/5/22	Sidewall	<0.024	<0.098	<47	<60
SW-14	5/23/22	Sidewall	<0.019	<0.075	**400**	**510**
SW-15	5/5/22	Sidewall	<0.025	<0.099	<50	<60
SSW-1	5/5/22	Sidewall	<0.025	<0.099	<49	<60
SSW-2	5/5/22	Sidewall	<0.025	<0.098	<48	<60

LEGEND

- EXCAVATED AREA
- DEPTH — DEPTH OF SAMPLE (FT)
- BTEX — BENZENE, TOLUENE, ETHYLBENZENE & XYLENES CONCENTRATION (MG/KG)
- TPH — TOTAL PETROLEUM HYDROCARBONS CONCENTRATION (MG/KG)
- INDICATES SIDE WALL COMPOSITE SAMPLE
- INDICATES SIDE WALL COMPOSITE SAMPLE
- INDICATES SIDE WALL COMPOSITE SAMPLE
- INDICATES SIDE WALL COMPOSITE SAMPLE

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 15 30 ft

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

N

GHD

EOG RESOURCES
EDDY COUNTY, NEW MEXICO
FEDERAL BQ BATTERY

CONFIRMATION SAMPLING:
SOIL ANALYTICAL RESULTS MAP

Project No. **12563440**
Date **June 2022**

FIGURE 3

Filename: \\ghdnet\ghd\US\Midland\Projects\562\12563440\Digital_Design\ACAD\Figures\RPT001\12563440-GHD-0000-RPT-EN-0101_DL-001.dwg
Plot Date: 16 June 2022 10:32 AM

Data Source: Image © 2021 Google - Imagery Date: December 21, 2019
Lat/Long: 32.8110° North, 104.4762° West

Tables

Table 1
Summary of Soil Analytical Data
Federal BQ Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	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)	(mg/kg)
			Table I Closure Criteria for Soils >100 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 - Test Pit													
TP1-2	9/30/21	2	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	87	87	720	807	140
TP1-6	9/30/21	6	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<9.7	<48	<48	930
TP1-10	9/30/21	10	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<8.8	<8.8	<44	<44	1,000
TP1-12	9/30/21	12	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<9.8	<49	<49	350
TP2-2	9/30/21	2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	350	350	1,500	1,850	<59
TP2-10	10/14/21	10	<0.47	<0.93	<0.93	<1.9	<1.9	93	690	783	490	1,273	230
TP2-12	10/14/21	12	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	92	92	120	212	210
TP2-15	10/14/21	15	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	140	140	130	270	100
TP2-19	10/14/21	19	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	68	68	280	348	150
TP3-2	9/30/21	2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	26	26	120	146	2,800
TP3-6	9/30/21	6	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.6	<9.6	<48	<48	830
TP3-10	9/30/21	10	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.4	<9.4	<47	<47	1,200
TP3-16	9/30/21	16	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<8.9	<8.9	<44	<44	820
TP3-19	9/30/21	19	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<10	<10	<50	<50	1,600
TP4-2	9/30/21	2	<0.12	<0.24	<0.24	<0.49	<0.49	<24	600	600	2,300	2,900	<60
TP4-6	9/30/21	6	<0.49	<0.98	2.1	<2.0	2.1	290	2,000	2,290	920	3,210	<60
TP4-17	10/14/21	17	<0.46	<0.92	8.1	6.2	14.3	790	5,100	5,890	2,200	8,090	290
TP4-20	10/14/21	20	0.63	<0.93	9.8	12	22.43	1,100	4,100	5,200	1,900	7,100	230
TP5-2	9/30/21	2	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.5	<9.5	<48	<48	360
TP5-6	9/30/21	6	<0.12	<0.24	<0.24	<0.49	<0.49	51	1,000	1,051	740	1,791	340
TP5-12	10/13/21	12	<0.023	<0.046	0.19	1.2	1.39	63	1,000	1,063	980	2,043	180
TP5-16	10/13/21	16	<0.024	<0.047	0.083	0.35	0.433	19	200	219	160	379	280
TP5-20	10/13/21	20	<0.024	<0.049	0.073	0.24	0.313	18	340	358	220	578	860
TP6-2	10/20/21	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<10	<10	<50	<50	2,700
TP6-4	10/20/21	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.7	<9.7	<49	<49	2,500
TP6-8	10/20/21	8	<0.12	<0.24	<0.24	<0.49	<0.49	<24	<9.8	<9.8	<49	<49	1,500
TP6-9	10/20/21	9	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<8.7	<8.7	<44	<44	190
TP7-S	10/20/21	Surface	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.2	<9.2	<46	<46	<60
TP7-2	10/20/21	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.8	<9.8	<49	<49	<60
TP8-S	10/20/21	Surface	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.4	<9.4	<47	<47	<59
TP8-2	10/20/21	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.6	<9.6	<48	<48	<60
TP9-S	10/20/21	Surface	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<9.9	<49	<49	<60
TP9-2	10/20/21	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<10	<10	<50	<50	<60
TP10-S	10/20/21	Surface	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.0	<9.0	<45	<45	<60

Table 1
Summary of Soil Analytical Data
Federal BQ Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	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)	(mg/kg)
			Table I Closure Criteria for Soils >100 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	10/20/21	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.8	<9.8	<49	<49	**150**
TP10-4	10/20/21	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<10	<50	<50	<61
TP11-2	10/20/21	2	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.7	<9.7	<48	<48	**590**
TP11-4	10/20/21	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<9.5	<48	<48	**270**
TP12-S	10/20/21	Surface	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.7	<9.7	<49	<49	<60
TP12-2	10/20/21	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.4	<9.4	<47	<47	<60
TP13-S	10/20/21	Surface	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.9	<9.9	<50	<50	<60
TP13-2	10/20/21	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<9.7	<49	<49	**320**
TP14-S	10/20/21	Surface	<0.024	<0.049	<0.049	<0.097	<0.0097	<4.9	<9.8	<9.8	<49	<49	<60
TP14-2	10/20/21	2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<9.8	<49	<49	<60
TP15-S	10/20/21	Surface	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	**48**	**48**	**250**	**298**	<60
TP15-2	10/20/21	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.4	<9.4	<47	<47	<60
Soil Boring Samples													
SB-1-5	1/4/22	5	<0.12	<0.25	**0.94**	<0.49	**0.94**	**300**	**7,900**	**8,200**	**3,900**	**12,100**	**150**
SB-1-10	1/4/22	10	<0.12	<0.25	**0.97**	<0.49	**0.97**	**86**	**1,600**	**1,686**	**740**	**2,426**	<60
SB-1-15	1/4/22	15	<0.12	<0.25	<0.25	<0.50	<0.50	<25	**970**	**970**	**650**	**1,620**	<60
SB-1-20	1/4/22	20	<0.12	<0.25	<0.25	<0.50	<0.50	<25	**120**	**120**	**54**	**174**	<60
SB-1-25	1/4/22	25	<0.12	<0.24	<0.24	<0.49	<0.49	<24	**58**	**58**	<48	**58**	**65**
SB-1-30	1/4/22	30	<0.12	<0.24	<0.24	<0.48	<0.48	<24	**75**	**75**	**52**	**127**	**77**
SB-1-35	1/4/22	35	<0.12	<0.25	<0.25	<0.49	<0.49	<25	**72**	**72**	**63**	**135**	<60
SB-1-40	1/4/22	40	<0.12	<0.25	<0.25	<0.50	<0.50	<25	**49**	**49**	**54**	**103**	<60
SB-1-45	1/4/22	45	<0.12	<0.24	<0.24	<0.49	<0.49	<24	**50**	**50**	**51**	**101**	<60
SB-1-50	1/4/22	50	<0.12	<0.25	<0.25	<0.49	<0.49	<25	**34**	**34**	<50	**34**	**490**
SB-1-60	1/4/22	60	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	**17**	**17**	<49	**17**	**340**
SB-1-70	1/4/22	70	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	**14**	**14**	<49	**14**	**1,400**
SB-1-75	1/4/22	75	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	**170**	**170**	**130**	**300**	**690**
SB-1-80	1/4/22	80	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<9.9	<50	<50	**150**
Bottom Hole Confirmation Samples													
BH-1	4/29/22	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<9.9	<49	<49	**74**
BH-2	4/29/22	4	<0.024	<0.049	<0.049	<0.097	<0.0097	<4.9	**58**	**58**	**120**	**178**	**2,300**
BH-3	4/29/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	**28**	**28**	**66**	**94**	**1,100**
BH-4	4/29/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	**130**	**130**	**330**	**460**	**160**
BH-5	4/29/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<9.6	<48	<48	**1,700**
BH-6	4/29/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<10	<10	<50	<50	**500**
BH-7	4/29/22	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	**77**	**77**	**54**	**131**	**1,100**
BH-8	4/29/22	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	**130**	**130**	**120**	**250**	**3,500**

Table 1
Summary of Soil Analytical Data
Federal BQ Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	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)	(mg/kg)
			Table I Closure Criteria for Soils >100 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
BH-9	4/29/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	**11**	**11**	<48	**11**	**360**
BH-10	4/29/22	4-4.5'	<0.12	<0.25	<0.25	<0.50	<0.50	<25	**1,000**	**1,000**	**750**	**1,750**	**3,100**
~~BH-11~~	~~5/5/22~~	~~4~~	~~<0.12~~	~~<0.24~~	~~<0.24~~	~~<0.49~~	~~<0.49~~	~~<24~~	~~2,400~~	~~2,400~~	~~2,100~~	~~4,500~~	~~390~~
BH-11A	5/23/22	4.5	<0.019	<0.037	<0.037	<0.074	<0.074	<3.7	**48**	**48**	<48	**48**	**1,300**
BH-12	5/5/22	12-12.5'	<0.12	<0.24	<0.24	<0.47	<0.47	<24	**70**	**70**	**71**	**141**	**290**
BH-13	5/5/22	12.12.5'	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.8	<9.8	<49	<49	**82**
BH-14	5/5/22	12	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	**33**	**33**	<50	**33**	<60
~~BH-15~~	~~5/5/22~~	~~12~~	~~<0.12~~	~~<0.24~~	~~<0.24~~	~~<0.47~~	~~<0.47~~	~~45~~	~~2,900~~	~~2,945~~	~~1,500~~	~~4,445~~	~~<60~~
BH-15A	5/23/22	12.5	<0.020	<0.039	<0.039	<0.078	<0.078	<3.9	**700**	**700**	**440**	**1,140**	**390**
~~BH-16~~	~~5/5/22~~	~~12~~	~~<0.023~~	~~<0.047~~	~~<0.047~~	~~<0.094~~	~~<0.094~~	~~<4.7~~	~~1,500~~	~~1,500~~	~~1,300~~	~~2,800~~	~~840~~
BH-16A	5/23/22	12.5	<0.019	<0.038	<0.038	<0.075	<0.075	<3.8	**56**	**56**	<47	**56**	**1,700**
BH-17	5/5/22	4-4.5'	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	**89**	**89**	**80**	**169**	**960**
BH-18	5/5/22	6-12.5'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	**170**	**170**	**220**	**390**	<60
BH-19	5/5/22	18-19	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	**360**	**360**	**300**	**660**	<60
BH-20	5/5/22	18-19	<0.023	<0.046	<0.046	<0.091	<0.091	<4.6	**90**	**90**	**85**	**175**	<60
BH-21	5/5/22	18-19	<0.12	<0.25	**0.7**	**0.65**	**1.35**	**97**	**820**	**917**	**350**	**1,267**	**280**
BH-22	5/5/22	4-4.5'	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	**430**	**430**	**370**	**800**	**580**
BH-23	5/5/22	4-4.5'	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	**26**	**26**	**57**	**83**	**820**
~~BH-24~~	~~5/5/22~~	~~4~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.10~~	~~<0.10~~	~~<5.0~~	~~1,200~~	~~1,200~~	~~2,000~~	~~3,200~~	~~1,300~~
BH-24A	5/23/22	5	<0.020	<0.039	<0.039	<0.079	<0.079	<3.9	**140**	**140**	**79**	**219**	**1,400**
BH-25	5/5/22	4-4.5'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<9.6	<48	<48	**2,800**
BH-26	5/5/22	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<9.7	<49	<49	**4,800**
BH-27	5/5/22	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<9.3	<47	<47	**2,100**
BH-28	5/5/22	4-4.5'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.6	<9.6	<48	<48	**1,700**
BH-29	5/5/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.9	<9.9	<49	<49	**520**
BH-30	5/5/22	4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	**21**	**21**	<49	**21**	**440**
BH-31	5/5/22	4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.8	<9.8	<49	<49	**150**
BH-32	5/5/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<10	<10	<50	<50	**290**
SBH-1	5/5/22	Sidewall	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<9.8	<49	<49	<60
Sidewall Confirmation Samples													
SW-1	4/29/22	Sidewall	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	**110**	**110**	**280**	**390**	**110**
SW-1A	5/23/22	Sidewall	<0.019	<0.038	<0.038	<0.077	<0.077	<3.8	**21**	**21**	**85**	**106**	<60
SW-1B	6/3/22	Sidewall	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<10	<10	<50	<50	<60
SW-2	4/29/22	Sidewall	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.2	<9.2	<46	<46	<60
~~SW-3~~	~~5/5/22~~	~~Sidewall~~	~~<0.11~~	~~<0.23~~	~~<0.23~~	~~<0.46~~	~~<0.46~~	~~<23~~	~~1,900~~	~~1,900~~	~~1,800~~	~~3,700~~	~~3,900~~
SW-3A	5/23/22	Sidewall	<0.020	<0.039	<0.039	<0.078	<0.078	<3.9	**93**	**93**	**68**	**161**	**6,000**
SW-4	5/5/22	Sidewall	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	**12**	**12**	<48	**12**	**550**
~~SW-5~~	~~5/5/22~~	~~Sidewall~~	~~<0.025~~	~~<0.049~~	~~<0.049~~	~~<0.098~~	~~<0.098~~	~~<4.9~~	~~13~~	~~13~~	~~84~~	~~97~~	~~<60~~
SW-5A	5/23/22	Sidewall	<0.025	<0.051	<0.051	<0.10	<0.10	<5.1	<9.9	<9.9	<49	<49	<60

Table 1
Summary of Soil Analytical Data
Federal BQ Battery
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	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)	(mg/kg)
			Table I Closure Criteria for Soils >100 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
SW-6	5/5/22	Sidewall	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.8	<9.8	<49	<49	<60
~~SW-7~~	~~5/5/22~~	~~Sidewall~~	~~<0.023~~	~~<0.046~~	~~<0.046~~	~~<0.092~~	~~<0.092~~	~~<4.6~~	~~32~~	~~32~~	~~69~~	~~101~~	~~<60~~
SW-7A	6/10/22	Sidewall	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<15	<15	<49	<49	<60
SW-8	5/5/22	Sidewall	<0.12	<0.24	**0.57**	**1.6**	**2.17**	**73**	**350**	**423**	**120**	**543**	**430**
SW-9	5/5/22	Sidewall	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	**96**	**96**	**230**	**326**	**1,600**
SW-10	5/5/22	Sidewall	<0.12	<0.24	<0.24	<0.48	<0.48	<24	**670**	**670**	**600**	**1,270**	**2,100**
SW-11	5/5/22	Sidewall	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.9	<9.9	<49	<49	**210**
~~SW-12~~	~~5/5/22~~	~~Sidewall~~	~~<0.025~~	~~<0.050~~	~~<0.050~~	~~<0.099~~	~~<0.099~~	~~<5.0~~	~~36~~	~~36~~	~~160~~	~~196~~	~~<60~~
SW-12A	5/23/22	Sidewall	<0.021	<0.041	<0.041	<0.082	<0.082	<4.1	**20**	**20**	**72**	**92**	<59
SW-13	5/5/22	Sidewall	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<9.5	<47	<47	<60
SW-14	5/23/22	Sidewall	<0.019	<0.038	<0.038	<0.075	<0.075	<3.8	**210**	**210**	**190**	**400**	**510**
SW-15	5/5/22	Sidewall	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<10	<10	<50	<50	<60
SSW-1	5/5/22	Sidewall	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.8	<9.8	<49	<49	<60
SSW-2	5/5/22	Sidewall	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<9.7	<48	<48	<60

Notes:
1. Values reported in mg/kg
2. < = Value Less than Reporting Limit (RL)
3. Bold Indicates Analyte Detected
4. BTEX analyses by EPA Method SW 8021B.
5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil
7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table 1 Closure Criteria for the site.
8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table 1 Closure Criteria for the site (Surface to 4 Feet Below Grade).
9. --- = not defined

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

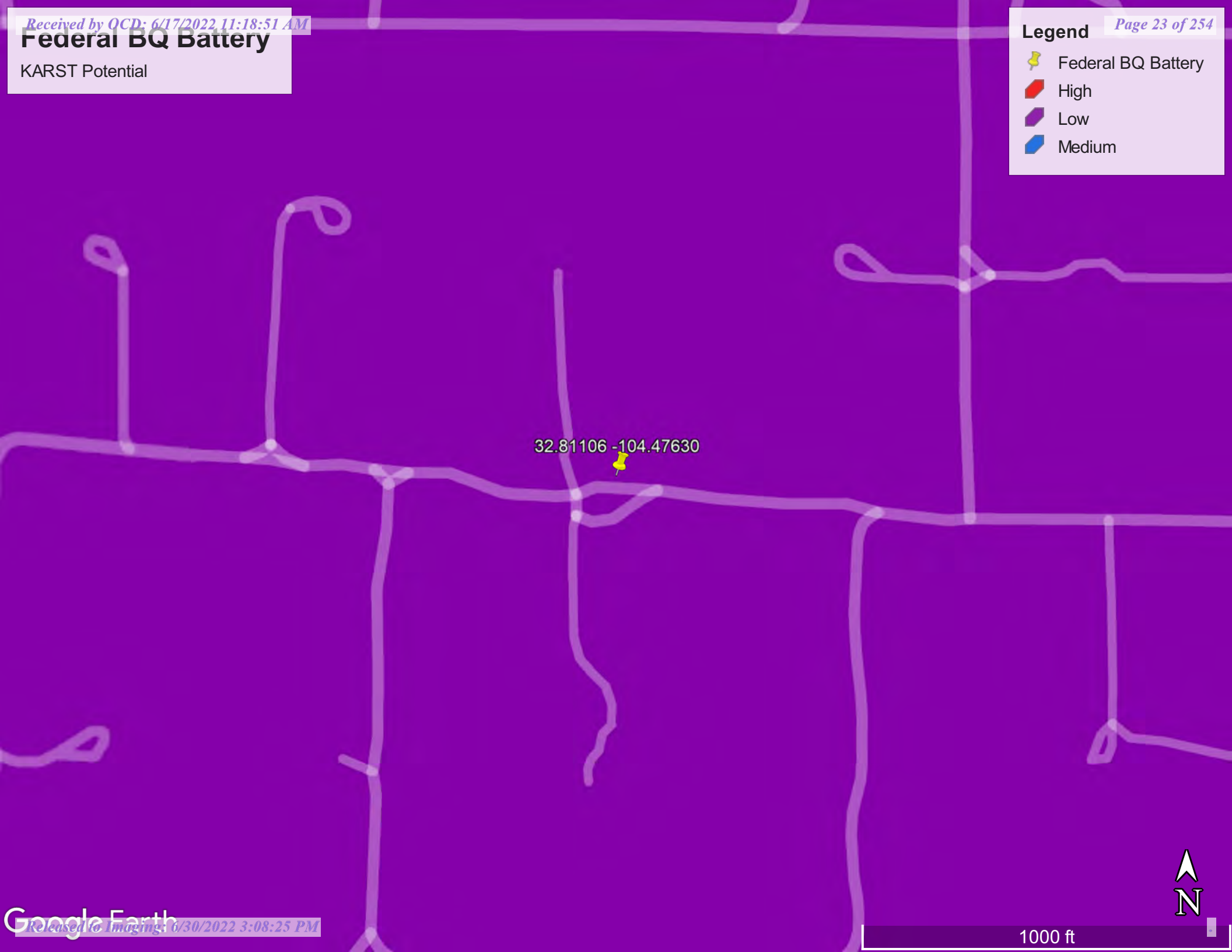
Table 2
Daily Disposal Summary
Federal BQ Battery
EOG Resources
Eddy, County, New Mexico

Date of Disposal	Total Pounds Disposed	Total Tons Disposed
4/21/2022	324,800	162.40
4/29/2022	921,440	460.72
5/2/2022	1,675,540	837.77
5/3/2022	622,440	311.22
5/4/2022	373,080	186.54
5/5/2022	322,400	161.20
5/6/2022	554,000	277.00
5/9/2022	217,320	108.66
5/17/2022	174,380	87.19
6/2/2022	48,820	24.41
Project Total	**5,234,220**	**2,617.11**

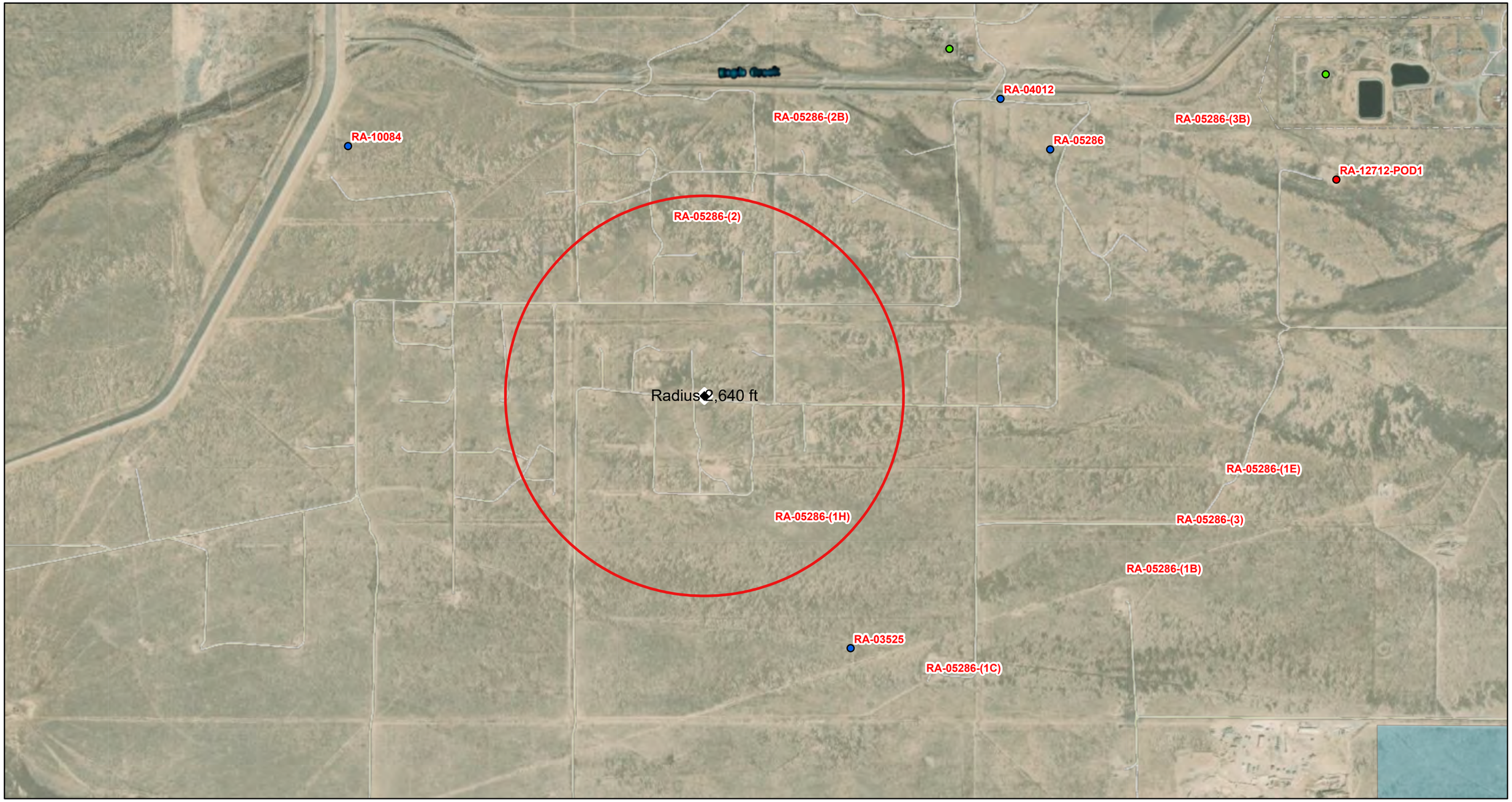
Attachment A
Site Characterization Documentation

Federal BQ Battery

KARST Potential



OSE POD Locations Map



2/2/2022, 2:32:40 PM

Override 1

GIS WATERS PODs

Active

Pending

Plugged

OSE District Boundary

Water Right Regulations

Closure Area

New Mexico State Trust Lands

Both Estates

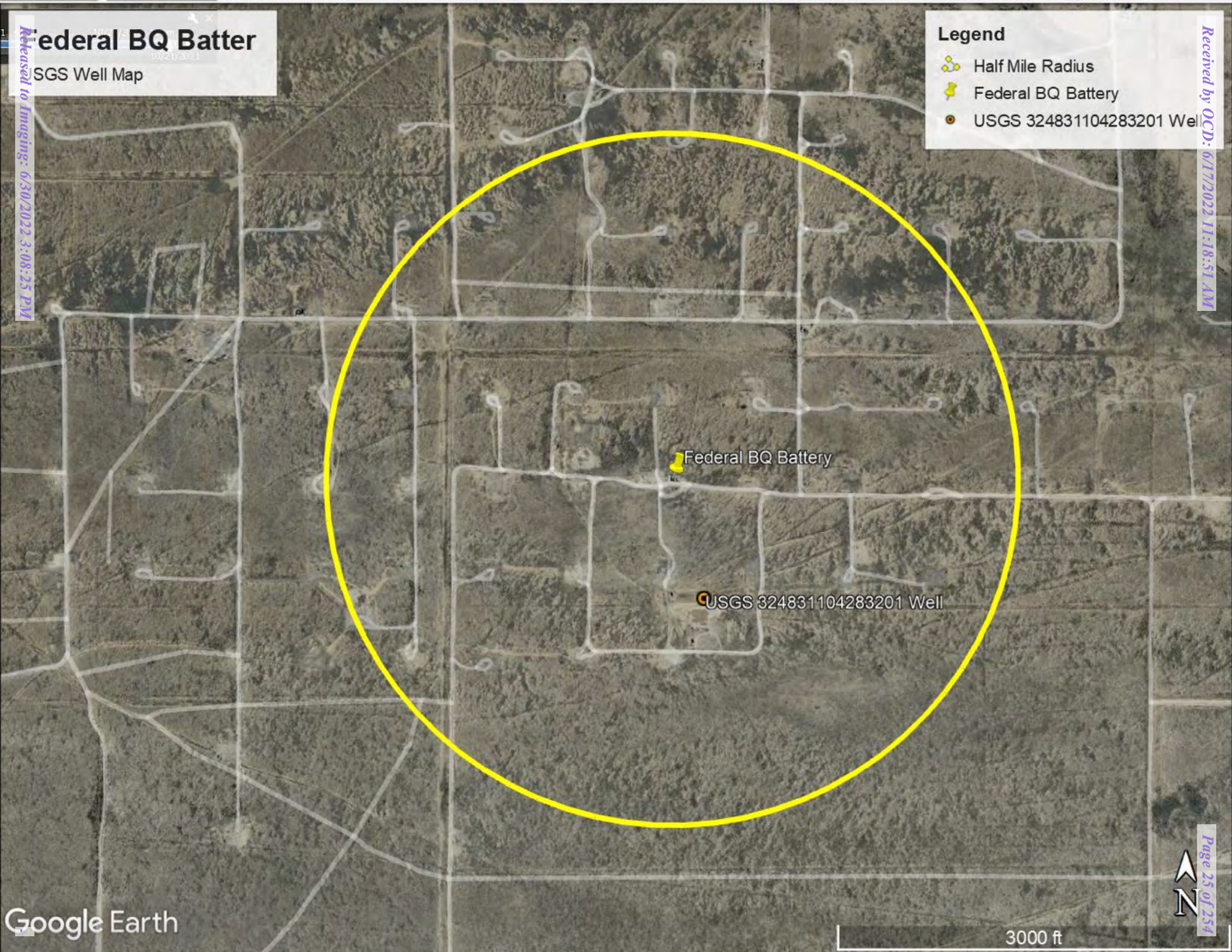
SiteBoundaries

1:18,056

0 0.17 0.35 0.7 mi

0 0.3 0.6 1.2 km

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



National Water Information System: Web Interface

USGS Water Resources (Cooperator Access)

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

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 324831104283201

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

USGS 324831104283201 17S.25E.27.141413

Eddy County, New Mexico
Latitude 32°48'31", Longitude 104°28'32" NAD27
Land-surface elevation 3,538 feet above NAVD88
The depth of the well is 250 feet below land surface.
This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status

Date	Time	Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	Water-level approval status
1979-03-28		D	72019	209.98			1	Z			A
1989-01-31		D	72019	212.51			1	Z			A
1990-03-06		D	72019	212.57			P	S			A
1994-02-16		D	72019	213.92			1	S			A
1999-02-02		D	72019	214.75			1	S	USGS	S	A
2003-01-25		D	72019	215.67			1	S	USGS	S	A
2004-02-11		D	72019	215.92			1	S	USGS	S	A
2005-02-09	16:00 UTC	m	72019	216.42			1	S	NM001	A	A
2006-02-01	17:35 UTC	m	72019	216.45			1	S	NM001	A	A
2007-02-05	16:00 UTC	m	72019	216.77			1	S	NM001	A	A
2008-01-16	16:30 UTC	m	72019	216.93			1	S	NM001	A	A
2013-01-28	21:50 UTC	m	72019	217.11			1	S	NM001	A	A
2009-01-07	19:30 UTC	m	72019	217.12			1	S	NM001	A	A
2010-01-21	19:00 UTC	m	72019	217.41			1	S	NM001	A	A
2011-01-26	19:30 UTC	m	72019	217.69			1	S	NM001	A	A
2012-01-17	18:20 UTC	m	72019	218.09			1	S	NM001	A	A
1984-02-01		D	72019	218.41			1	Z			A
2015-01-15	20:40 UTC	m	72019	225.79			1	S	NM001	A	A
1979-03-28		D	62610		3326.46	NGVD29	1	Z			A
1979-03-28		D	62611		3328.02	NAVD88	1	Z			A
1984-02-01		D	62610		3318.03	NGVD29	1	Z			A
1984-02-01		D	62611		3319.59	NAVD88	1	Z			A
1989-01-31		D	62610		3323.93	NGVD29	1	Z			A
1989-01-31		D	62611		3325.49	NAVD88	1	Z			A
1990-03-06		D	62610		3323.87	NGVD29	P	S			A
1990-03-06		D	62611		3325.43	NAVD88	P	S			A
1994-02-16		D	62610		3322.52	NGVD29	1	S			A
1994-02-16		D	62611		3324.08	NAVD88	1	S			A
1999-02-02		D	62610		3321.69	NGVD29	1	S	USGS	S	A
1999-02-02		D	62611		3323.25	NAVD88	1	S	USGS	S	A
2003-01-25		D	62610		3320.77	NGVD29	1	S	USGS	S	A

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
2003-01-25		D	62611		3322.33	NAVD88	1	S	USGS	S	A
2004-02-11		D	62610		3320.52	NGVD29	1	S	USGS	S	A
2004-02-11		D	62611		3322.08	NAVD88	1	S	USGS	S	A
2005-02-09	16:00 UTC	m	62610		3320.02	NGVD29	1	S	NM001	A	A
2005-02-09	16:00 UTC	m	62611		3321.58	NAVD88	1	S	NM001	A	A
2006-02-01	17:35 UTC	m	62610		3319.99	NGVD29	1	S	NM001	A	A
2006-02-01	17:35 UTC	m	62611		3321.55	NAVD88	1	S	NM001	A	A
2007-02-05	16:00 UTC	m	62610		3319.67	NGVD29	1	S	NM001	A	A
2007-02-05	16:00 UTC	m	62611		3321.23	NAVD88	1	S	NM001	A	A
2008-01-16	16:30 UTC	m	62610		3319.51	NGVD29	1	S	NM001	A	A
2008-01-16	16:30 UTC	m	62611		3321.07	NAVD88	1	S	NM001	A	A
2009-01-07	19:30 UTC	m	62610		3319.32	NGVD29	1	S	NM001	A	A
2009-01-07	19:30 UTC	m	62611		3320.88	NAVD88	1	S	NM001	A	A
2010-01-21	19:00 UTC	m	62610		3319.03	NGVD29	1	S	NM001	A	A
2010-01-21	19:00 UTC	m	62611		3320.59	NAVD88	1	S	NM001	A	A
2011-01-26	19:30 UTC	m	62610		3318.75	NGVD29	1	S	NM001	A	A
2011-01-26	19:30 UTC	m	62611		3320.31	NAVD88	1	S	NM001	A	A
2012-01-17	18:20 UTC	m	62610		3318.35	NGVD29	1	S	NM001	A	A
2012-01-17	18:20 UTC	m	62611		3319.91	NAVD88	1	S	NM001	A	A
2013-01-28	21:50 UTC	m	62610		3319.33	NGVD29	1	S	NM001	A	A
2013-01-28	21:50 UTC	m	62611		3320.89	NAVD88	1	S	NM001	A	A
2015-01-15	20:40 UTC	m	62610		3310.65	NGVD29	1	S	NM001	A	A
2015-01-15	20:40 UTC	m	62611		3312.21	NAVD88	1	S	NM001	A	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet

Section	Code	Description
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	NM001	New Mexico State Engineers Office
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	A	Reported by another government agency (do not use "A" if reported by owner, use "O").
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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

Accessibility FOIA Privacy Policies and Notices

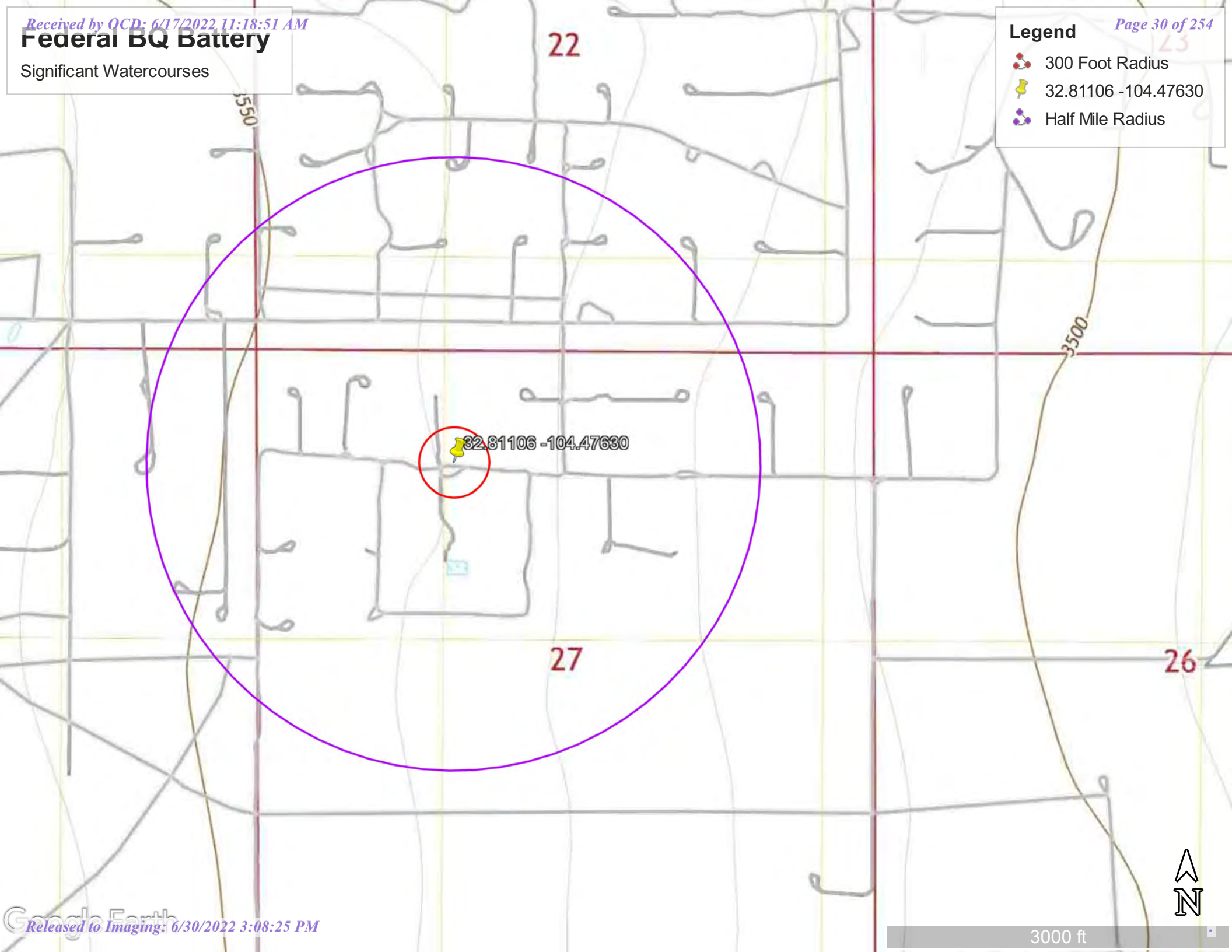
U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2022-03-15 17:07:26 EDT
0.28 0.24 nadww02

Federal BQ Battery

Significant Watercourses



Legend

- 300 Foot Radius
- 32.81106 -104.47630
- Half Mile Radius

Google Earth

3000 ft

U.S. Fish and Wildlife Service
National Wetlands Inventory

Federal BQ Battery

November 10, 2021

Wetlands

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

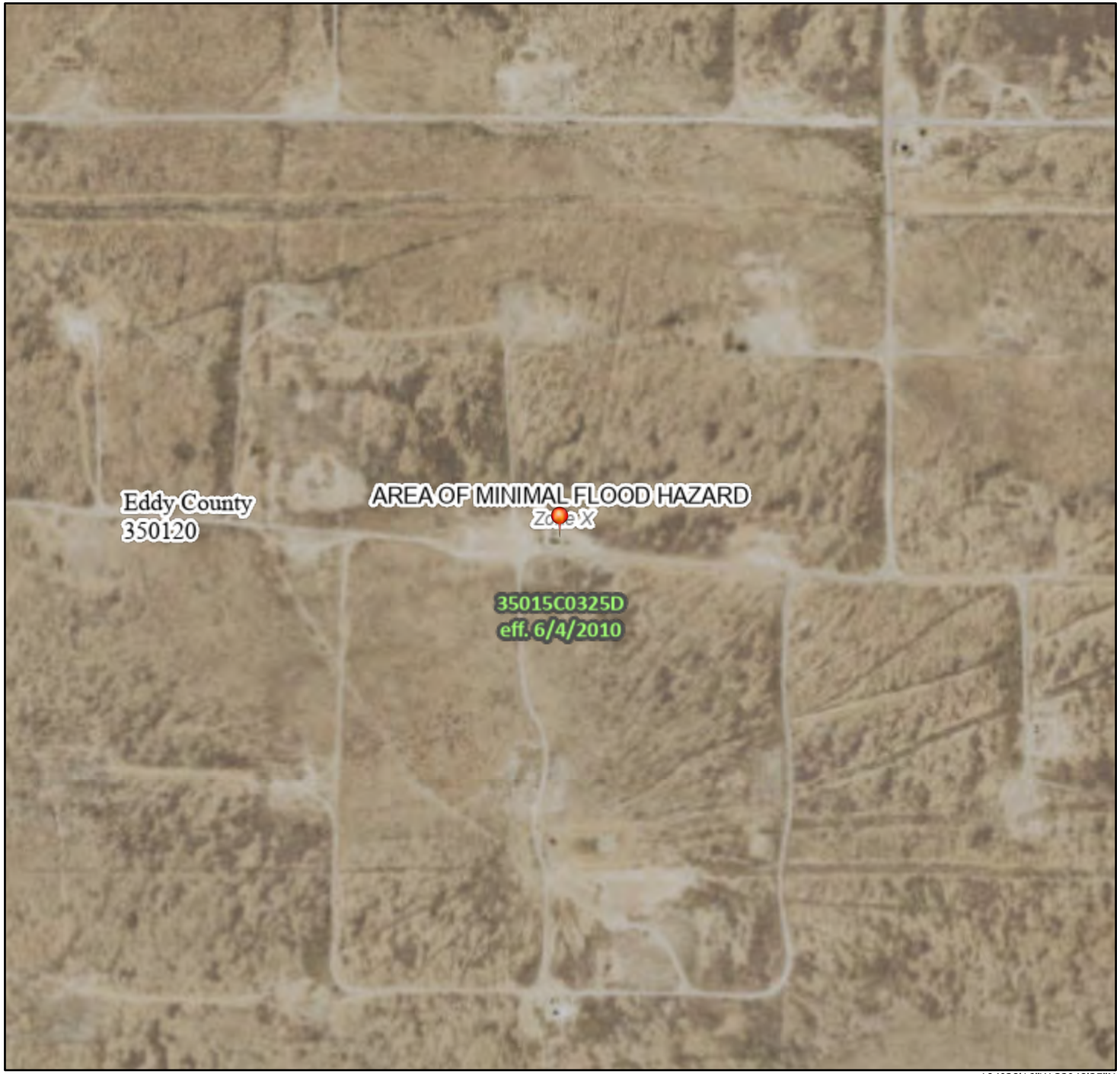
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

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

National Flood Hazard Layer FIRMette

FEMA

104°28'53"W 32°48'55"N



104°28'16"W 32°48'25"N

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

1:6,000

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

Legend

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

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

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

N

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/10/2021 at 5:12 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 E
SB-1 Soil Boring Log

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Federal BQ Battery
PROJECT NUMBER: 12563440
CLIENT: EOG Resources
LOCATION: Artesia, New Mexico
DRILLING CONTRACTOR: White Drilling Company, Inc.

HOLE DESIGNATION: SB-1
DATE COMPLETED: January 4, 2022
DRILLING METHOD: Air Rotary/Split Spoons
FIELD PERSONNEL: Z. Comino
DRILLER: B. Atkins

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	CHLORIDE (mg/kg)	TOTAL TPH (mg/kg)
5	SP-SAND, with 50% <0.5 - 1cm sandstone gravel. medium grained sand, brown to black, moist, odor - gray from 5.00 to 25.00ft BGS			5'			150	12100
10				10'			<60	2426
15	- damp from 15.00 to 25.00ft BGS			15'			<60	1620
20				20'			<60	174
25	SP-SAND, with 50% <.05 - 1.5 cm limestone gravel, medium grained sand, brown, dry, odor	25.00		25'			65	58
30			Backfilled With Cement Grout	30'			77	127
35	SP-SAND, with 25% <0.5 cm limestone gravel, fine to medium grained sand, brown to light brown, dry, slight odor	35.00		35'			<60	135
40	- <0.5 - 1 cm limestone gravel from 40.00 to 45.00ft BGS			40'			<60	103
45	SP-SAND, with about 75% <0.5 - 1 cm limestone gravel, fine to medium grained sand, brown, damp, slight odor	45.00		45'			<60	101
50				50'			490	34
55								
60	ML-CLAYEY SILT, trace <0.5 cm limestone gravel, moist, slight odor	60.00		60'			340	17
65								
70	SP-SAND, trace <0.5 - 0.5 cm limestone gravel, fine to medium grained sand, brown, damp, slight odor	70.00		70'			1400	14
75	CL-CLAYEY SILT, trace <0.5 cm limestone gravel, brown, moist, slight odor	75.00		75'			690	300
80	END OF BOREHOLE @ 80.00ft BGS	80.00		80'			150	<50

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

CHEMICAL ANALYSIS (oval)

File: I:\LOG DATABASE\8-CHAR\12-----\1256-\12563440 FEDERAL\12563440-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 1/16/22

Attachment C
Photographic Log

Northern Excavation:

Site Photograph

EOG Federal BQ Battery Release Site.

Site Photograph

EOG Federal BQ Battery Release Site.

Site Photograph

EOG Federal BQ Battery Release Site.

Southern Excavation:

Site Photograph

EOG Federal BQ Battery Release Site.

Appendix D
Confirmation Sampling Notifications

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

October 14, 2021

Tom Larson

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

RE: Federal BQ Battery OrderNo.: 2110087

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 14 sample(s) on 10/2/2021 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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **2110087**
Date Reported: **10/14/2021**

CLIENT: GHD Midland
Project: Federal BQ Battery
Lab ID: 2110087-001 **Matrix:** SOIL

Client Sample ID: TP1-2
Collection Date: 9/30/2021 9:20:00 AM
Received Date: 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	140	59		mg/Kg	20	10/8/2021 8:32:42 PM	63154
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	87	44		mg/Kg	5	10/9/2021 7:15:58 PM	63113
Motor Oil Range Organics (MRO)	720	220		mg/Kg	5	10/9/2021 7:15:58 PM	63113
Surr: DNOP	89.2	70-130		%Rec	5	10/9/2021 7:15:58 PM	63113
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/9/2021 2:24:00 PM	63096
Surr: BFB	92.3	70-130		%Rec	1	10/9/2021 2:24:00 PM	63096
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	10/9/2021 2:24:00 PM	63096
Toluene	ND	0.049		mg/Kg	1	10/9/2021 2:24:00 PM	63096
Ethylbenzene	ND	0.049		mg/Kg	1	10/9/2021 2:24:00 PM	63096
Xylenes, Total	ND	0.098		mg/Kg	1	10/9/2021 2:24:00 PM	63096
Surr: 4-Bromofluorobenzene	81.3	70-130		%Rec	1	10/9/2021 2:24:00 PM	63096

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 **2110087**
Date Reported: **10/14/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP1-6
Project: Federal BQ Battery
Collection Date: 9/30/2021 9:30:00 AM
Lab ID: 2110087-002 **Matrix:** SOIL **Received Date:** 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	930	60		mg/Kg	20	10/8/2021 8:45:06 PM	63154
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/11/2021 4:11:45 AM	63113
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/11/2021 4:11:45 AM	63113
Surr: DNOP	102	70-130		%Rec	1	10/11/2021 4:11:45 AM	63113
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/9/2021 2:44:00 PM	63096
Surr: BFB	93.5	70-130		%Rec	1	10/9/2021 2:44:00 PM	63096
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	10/9/2021 2:44:00 PM	63096
Toluene	ND	0.048		mg/Kg	1	10/9/2021 2:44:00 PM	63096
Ethylbenzene	ND	0.048		mg/Kg	1	10/9/2021 2:44:00 PM	63096
Xylenes, Total	ND	0.096		mg/Kg	1	10/9/2021 2:44:00 PM	63096
Surr: 4-Bromofluorobenzene	84.7	70-130		%Rec	1	10/9/2021 2:44:00 PM	63096

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 **2110087**
Date Reported: **10/14/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP1-10
Project: Federal BQ Battery
Collection Date: 9/30/2021 9:40:00 AM
Lab ID: 2110087-003 **Matrix:** SOIL **Received Date:** 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1000	60		mg/Kg	20	10/8/2021 8:57:31 PM	63154
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	10/11/2021 4:35:12 AM	63113
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	10/11/2021 4:35:12 AM	63113
Surr: DNOP	102	70-130		%Rec	1	10/11/2021 4:35:12 AM	63113
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/9/2021 3:03:00 PM	63096
Surr: BFB	96.0	70-130		%Rec	1	10/9/2021 3:03:00 PM	63096
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	10/9/2021 3:03:00 PM	63096
Toluene	ND	0.049		mg/Kg	1	10/9/2021 3:03:00 PM	63096
Ethylbenzene	ND	0.049		mg/Kg	1	10/9/2021 3:03:00 PM	63096
Xylenes, Total	ND	0.098		mg/Kg	1	10/9/2021 3:03:00 PM	63096
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	10/9/2021 3:03:00 PM	63096

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 **2110087**
Date Reported: **10/14/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP1-12
Project: Federal BQ Battery
Collection Date: 9/30/2021 10:25:00 AM
Lab ID: 2110087-004 **Matrix:** SOIL **Received Date:** 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	350	60		mg/Kg	20	10/8/2021 9:09:56 PM	63154
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/9/2021 8:06:10 PM	63113
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/9/2021 8:06:10 PM	63113
Surr: DNOP	90.5	70-130		%Rec	1	10/9/2021 8:06:10 PM	63113
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/9/2021 4:02:00 PM	63096
Surr: BFB	91.9	70-130		%Rec	1	10/9/2021 4:02:00 PM	63096
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	10/9/2021 4:02:00 PM	63096
Toluene	ND	0.049		mg/Kg	1	10/9/2021 4:02:00 PM	63096
Ethylbenzene	ND	0.049		mg/Kg	1	10/9/2021 4:02:00 PM	63096
Xylenes, Total	ND	0.098		mg/Kg	1	10/9/2021 4:02:00 PM	63096
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	1	10/9/2021 4:02:00 PM	63096

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 **2110087**
Date Reported: **10/14/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP2-2
Project: Federal BQ Battery
Collection Date: 9/30/2021 11:40:00 AM
Lab ID: 2110087-005 **Matrix:** SOIL **Received Date:** 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	59		mg/Kg	20	10/8/2021 9:22:20 PM	63154
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	350	47		mg/Kg	5	10/9/2021 7:41:04 PM	63113
Motor Oil Range Organics (MRO)	1500	240		mg/Kg	5	10/9/2021 7:41:04 PM	63113
Surr: DNOP	93.9	70-130		%Rec	5	10/9/2021 7:41:04 PM	63113
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/9/2021 4:22:00 PM	63096
Surr: BFB	90.6	70-130		%Rec	1	10/9/2021 4:22:00 PM	63096
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	10/9/2021 4:22:00 PM	63096
Toluene	ND	0.049		mg/Kg	1	10/9/2021 4:22:00 PM	63096
Ethylbenzene	ND	0.049		mg/Kg	1	10/9/2021 4:22:00 PM	63096
Xylenes, Total	ND	0.098		mg/Kg	1	10/9/2021 4:22:00 PM	63096
Surr: 4-Bromofluorobenzene	81.6	70-130		%Rec	1	10/9/2021 4:22:00 PM	63096

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 **2110087**
Date Reported: **10/14/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP3-2
Project: Federal BQ Battery
Collection Date: 9/30/2021 12:00:00 PM
Lab ID: 2110087-006 **Matrix:** SOIL **Received Date:** 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	2800	150		mg/Kg	50	10/10/2021 11:40:14 PM	63154
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	26	9.8		mg/Kg	1	10/9/2021 6:00:53 PM	63113
Motor Oil Range Organics (MRO)	120	49		mg/Kg	1	10/9/2021 6:00:53 PM	63113
Surr: DNOP	87.2	70-130		%Rec	1	10/9/2021 6:00:53 PM	63113
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/9/2021 4:42:00 PM	63096
Surr: BFB	92.6	70-130		%Rec	1	10/9/2021 4:42:00 PM	63096
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	10/9/2021 4:42:00 PM	63096
Toluene	ND	0.049		mg/Kg	1	10/9/2021 4:42:00 PM	63096
Ethylbenzene	ND	0.049		mg/Kg	1	10/9/2021 4:42:00 PM	63096
Xylenes, Total	ND	0.098		mg/Kg	1	10/9/2021 4:42:00 PM	63096
Surr: 4-Bromofluorobenzene	81.4	70-130		%Rec	1	10/9/2021 4:42:00 PM	63096

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 **2110087**
Date Reported: **10/14/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP3-6
Project: Federal BQ Battery
Collection Date: 9/30/2021 12:05:00 PM
Lab ID: 2110087-007 **Matrix:** SOIL **Received Date:** 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	830	60		mg/Kg	20	10/8/2021 10:11:59 PM	63154
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/9/2021 12:47:23 AM	63113
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/9/2021 12:47:23 AM	63113
Surr: DNOP	89.1	70-130		%Rec	1	10/9/2021 12:47:23 AM	63113
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/9/2021 5:01:00 PM	63096
Surr: BFB	92.0	70-130		%Rec	1	10/9/2021 5:01:00 PM	63096
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	10/9/2021 5:01:00 PM	63096
Toluene	ND	0.048		mg/Kg	1	10/9/2021 5:01:00 PM	63096
Ethylbenzene	ND	0.048		mg/Kg	1	10/9/2021 5:01:00 PM	63096
Xylenes, Total	ND	0.096		mg/Kg	1	10/9/2021 5:01:00 PM	63096
Surr: 4-Bromofluorobenzene	82.8	70-130		%Rec	1	10/9/2021 5:01:00 PM	63096

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 **2110087**
Date Reported: **10/14/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP3-10
Project: Federal BQ Battery
Collection Date: 9/30/2021 12:15:00 PM
Lab ID: 2110087-008 **Matrix:** SOIL **Received Date:** 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1200	60		mg/Kg	20	10/8/2021 10:24:23 PM	63154
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/8/2021 9:14:09 PM	63113
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/8/2021 9:14:09 PM	63113
Surr: DNOP	87.6	70-130		%Rec	1	10/8/2021 9:14:09 PM	63113
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/9/2021 5:21:00 PM	63096
Surr: BFB	91.2	70-130		%Rec	1	10/9/2021 5:21:00 PM	63096
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	10/9/2021 5:21:00 PM	63096
Toluene	ND	0.049		mg/Kg	1	10/9/2021 5:21:00 PM	63096
Ethylbenzene	ND	0.049		mg/Kg	1	10/9/2021 5:21:00 PM	63096
Xylenes, Total	ND	0.098		mg/Kg	1	10/9/2021 5:21:00 PM	63096
Surr: 4-Bromofluorobenzene	81.9	70-130		%Rec	1	10/9/2021 5:21:00 PM	63096

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 **2110087**
Date Reported: **10/14/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP3-16
Project: Federal BQ Battery
Collection Date: 9/30/2021 12:50:00 PM
Lab ID: 2110087-009 **Matrix:** SOIL **Received Date:** 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	820	60		mg/Kg	20	10/8/2021 10:36:47 PM	63154
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	10/12/2021 8:29:55 PM	63113
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	10/12/2021 8:29:55 PM	63113
Surr: DNOP	90.5	70-130		%Rec	1	10/12/2021 8:29:55 PM	63113
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/9/2021 10:14:00 PM	63103
Surr: BFB	108	70-130		%Rec	1	10/9/2021 10:14:00 PM	63103
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	10/9/2021 10:14:00 PM	63103
Toluene	ND	0.049		mg/Kg	1	10/9/2021 10:14:00 PM	63103
Ethylbenzene	ND	0.049		mg/Kg	1	10/9/2021 10:14:00 PM	63103
Xylenes, Total	ND	0.097		mg/Kg	1	10/9/2021 10:14:00 PM	63103
Surr: 4-Bromofluorobenzene	82.6	70-130		%Rec	1	10/9/2021 10:14:00 PM	63103

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 **2110087**
Date Reported: **10/14/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP3-19
Project: Federal BQ Battery
Collection Date: 9/30/2021 1:30:00 PM
Lab ID: 2110087-010 **Matrix:** SOIL **Received Date:** 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1600	61		mg/Kg	20	10/8/2021 10:49:12 PM	63154
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/8/2021 9:40:57 PM	63113
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/8/2021 9:40:57 PM	63113
Surr: DNOP	88.5	70-130		%Rec	1	10/8/2021 9:40:57 PM	63113
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/9/2021 11:52:00 PM	63103
Surr: BFB	96.0	70-130		%Rec	1	10/9/2021 11:52:00 PM	63103
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	10/9/2021 11:52:00 PM	63103
Toluene	ND	0.050		mg/Kg	1	10/9/2021 11:52:00 PM	63103
Ethylbenzene	ND	0.050		mg/Kg	1	10/9/2021 11:52:00 PM	63103
Xylenes, Total	ND	0.10		mg/Kg	1	10/9/2021 11:52:00 PM	63103
Surr: 4-Bromofluorobenzene	83.8	70-130		%Rec	1	10/9/2021 11:52:00 PM	63103

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 **2110087**
Date Reported: **10/14/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP4-2
Project: Federal BQ Battery
Collection Date: 9/30/2021 1:50:00 PM
Lab ID: 2110087-011 **Matrix:** SOIL **Received Date:** 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/8/2021 11:01:37 PM	63154
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	600	99		mg/Kg	10	10/9/2021 6:50:50 PM	63113
Motor Oil Range Organics (MRO)	2300	490		mg/Kg	10	10/9/2021 6:50:50 PM	63113
Surr: DNOP	0	70-130	S	%Rec	10	10/9/2021 6:50:50 PM	63113
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	10/10/2021 12:51:00 AM	63103
Surr: BFB	98.1	70-130		%Rec	5	10/10/2021 12:51:00 AM	63103
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.12		mg/Kg	5	10/10/2021 12:51:00 AM	63103
Toluene	ND	0.24		mg/Kg	5	10/10/2021 12:51:00 AM	63103
Ethylbenzene	ND	0.24		mg/Kg	5	10/10/2021 12:51:00 AM	63103
Xylenes, Total	ND	0.49		mg/Kg	5	10/10/2021 12:51:00 AM	63103
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	5	10/10/2021 12:51:00 AM	63103

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 **2110087**
Date Reported: **10/14/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP4-6
Project: Federal BQ Battery
Collection Date: 9/30/2021 2:15:00 PM
Lab ID: 2110087-012 **Matrix:** SOIL **Received Date:** 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	10/8/2021 11:14:02 PM	63154
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	2000	88		mg/Kg	10	10/11/2021 10:16:43 AM	63113
Motor Oil Range Organics (MRO)	920	440		mg/Kg	10	10/11/2021 10:16:43 AM	63113
Surr: DNOP	0	70-130	S	%Rec	10	10/11/2021 10:16:43 AM	63113
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	290	98		mg/Kg	20	10/10/2021 1:11:00 AM	63103
Surr: BFB	249	70-130	S	%Rec	20	10/10/2021 1:11:00 AM	63103
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.49		mg/Kg	20	10/10/2021 1:11:00 AM	63103
Toluene	ND	0.98		mg/Kg	20	10/10/2021 1:11:00 AM	63103
Ethylbenzene	2.1	0.98		mg/Kg	20	10/10/2021 1:11:00 AM	63103
Xylenes, Total	ND	2.0		mg/Kg	20	10/10/2021 1:11:00 AM	63103
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	20	10/10/2021 1:11:00 AM	63103

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 **2110087**
Date Reported: **10/14/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP5-2
Project: Federal BQ Battery
Collection Date: 9/30/2021 2:40:00 PM
Lab ID: 2110087-013 **Matrix:** SOIL **Received Date:** 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	360	61		mg/Kg	20	10/8/2021 11:26:27 PM	63154
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/8/2021 10:21:23 PM	63113
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/8/2021 10:21:23 PM	63113
Surr: DNOP	89.2	70-130		%Rec	1	10/8/2021 10:21:23 PM	63113
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/10/2021 1:30:00 AM	63103
Surr: BFB	98.5	70-130		%Rec	1	10/10/2021 1:30:00 AM	63103
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.024		mg/Kg	1	10/10/2021 1:30:00 AM	63103
Toluene	ND	0.048		mg/Kg	1	10/10/2021 1:30:00 AM	63103
Ethylbenzene	ND	0.048		mg/Kg	1	10/10/2021 1:30:00 AM	63103
Xylenes, Total	ND	0.097		mg/Kg	1	10/10/2021 1:30:00 AM	63103
Surr: 4-Bromofluorobenzene	84.7	70-130		%Rec	1	10/10/2021 1:30:00 AM	63103

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 **2110087**
Date Reported: **10/14/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP5-6
Project: Federal BQ Battery
Collection Date: 9/30/2021 2:55:00 PM
Lab ID: 2110087-014 **Matrix:** SOIL **Received Date:** 10/2/2021 9:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	340	60		mg/Kg	20	10/8/2021 11:38:51 PM	63154
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	1000	92		mg/Kg	10	10/9/2021 8:44:10 PM	63113
Motor Oil Range Organics (MRO)	740	460		mg/Kg	10	10/9/2021 8:44:10 PM	63113
Surr: DNOP	0	70-130	S	%Rec	10	10/9/2021 8:44:10 PM	63113
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	51	24		mg/Kg	5	10/10/2021 1:50:00 AM	63103
Surr: BFB	185	70-130	S	%Rec	5	10/10/2021 1:50:00 AM	63103
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.12		mg/Kg	5	10/10/2021 1:50:00 AM	63103
Toluene	ND	0.24		mg/Kg	5	10/10/2021 1:50:00 AM	63103
Ethylbenzene	ND	0.24		mg/Kg	5	10/10/2021 1:50:00 AM	63103
Xylenes, Total	ND	0.49		mg/Kg	5	10/10/2021 1:50:00 AM	63103
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	5	10/10/2021 1:50:00 AM	63103

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#: **2110087**

14-Oct-21

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **MB-63154**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **63154**	RunNo: **81903**							
Prep Date: **10/8/2021**	Analysis Date: **10/8/2021**	SeqNo: **2898901**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-63154**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **63154**	RunNo: **81903**							
Prep Date: **10/8/2021**	Analysis Date: **10/8/2021**	SeqNo: **2898902**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2110087**

14-Oct-21

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **MB-63113**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **63113**	RunNo: **81929**
Prep Date: **10/7/2021**	Analysis Date: **10/9/2021**	SeqNo: **2899834** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.7		10.00		87.1	70	130			

Sample ID: **LCS-63113**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **63113**	RunNo: **81929**
Prep Date: **10/7/2021**	Analysis Date: **10/9/2021**	SeqNo: **2899837** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.7	68.9	135			
Surr: DNOP	4.5		5.000		90.8	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#: **2110087**

14-Oct-21

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **mb-63096**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **63096**	RunNo: **81894**
Prep Date: **10/6/2021**	Analysis Date: **10/9/2021**	SeqNo: **2898468** 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	980		1000		97.8	70	130			

Sample ID: **mb-63103**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **63103**	RunNo: **81915**
Prep Date: **10/6/2021**	Analysis Date: **10/9/2021**	SeqNo: **2899485** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		94.7	70	130			

Sample ID: **lcs-63096**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **63096**	RunNo: **81915**
Prep Date: **10/6/2021**	Analysis Date: **10/9/2021**	SeqNo: **2899487** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	78.6	131			
Surr: BFB	1000		1000		104	70	130			

Sample ID: **lcs-63103**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **63103**	RunNo: **81915**
Prep Date: **10/6/2021**	Analysis Date: **10/9/2021**	SeqNo: **2899488** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	117	78.6	131			
Surr: BFB	1100		1000		108	70	130			

Sample ID: **2110087-009ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **TP3-16**	Batch ID: **63103**	RunNo: **81915**
Prep Date: **10/6/2021**	Analysis Date: **10/9/2021**	SeqNo: **2899493** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.9	24.32	0	111	61.3	114			
Surr: BFB	1100		972.8		115	70	130			

Sample ID: **2110087-009amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **TP3-16**	Batch ID: **63103**	RunNo: **81915**
Prep Date: **10/6/2021**	Analysis Date: **10/9/2021**	SeqNo: **2899498** Units: **mg/Kg**

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	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#: **2110087**

14-Oct-21

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **2110087-009amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **TP3-16** Batch ID: **63103** RunNo: **81915**

Prep Date: **10/6/2021** Analysis Date: **10/9/2021** SeqNo: **2899498** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	24.75	0	104	61.3	114	4.82	20	
Surr: BFB	1100		990.1		113	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#: **2110087**

14-Oct-21

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **mb-63096**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **63096**	RunNo: **81894**
Prep Date: **10/6/2021**	Analysis Date: **10/9/2021**	SeqNo: **2898520** 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	0.86		1.000		86.4	70	130			

Sample ID: **lcs-63096**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **63096**	RunNo: **81894**
Prep Date: **10/6/2021**	Analysis Date: **10/9/2021**	SeqNo: **2898523** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	98.6	80	120			
Toluene	0.99	0.050	1.000	0	99.5	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.9	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		86.0	70	130			

Sample ID: **mb-63103**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **63103**	RunNo: **81915**
Prep Date: **10/6/2021**	Analysis Date: **10/9/2021**	SeqNo: **2899542** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		85.4	70	130			

Sample ID: **lcs-63103**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **63103**	RunNo: **81915**
Prep Date: **10/6/2021**	Analysis Date: **10/9/2021**	SeqNo: **2899544** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.8	80	120			
Toluene	0.96	0.050	1.000	0	95.6	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.5	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.4	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2110087**

14-Oct-21

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **2110087-010ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **TP3-19** Batch ID: **63103** RunNo: **81915**

Prep Date: **10/6/2021** Analysis Date: **10/10/2021** SeqNo: **2899547** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.024	0.9775	0	87.1	80	120			
Toluene	0.86	0.049	0.9775	0	87.8	80	120			
Ethylbenzene	0.83	0.049	0.9775	0	85.3	80	120			
Xylenes, Total	2.6	0.098	2.933	0	87.7	80	120			
Surr: 4-Bromofluorobenzene	0.83		0.9775		84.6	70	130			

Sample ID: **2110087-010amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **TP3-19** Batch ID: **63103** RunNo: **81915**

Prep Date: **10/6/2021** Analysis Date: **10/10/2021** SeqNo: **2899550** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.024	0.9785	0	85.2	80	120	2.02	20	
Toluene	0.84	0.049	0.9785	0	85.6	80	120	2.49	20	
Ethylbenzene	0.83	0.049	0.9785	0	85.1	80	120	0.236	20	
Xylenes, Total	2.5	0.098	2.935	0	86.8	80	120	1.02	20	
Surr: 4-Bromofluorobenzene	0.83		0.9785		85.2	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: 2110087 | RcptNo: 1

Received By: Sean Livingston 10/2/2021 9:15:00 AM

Completed By: Sean Livingston 10/2/2021 10:27:38 AM

Reviewed By: DAD 10/2/21

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: Sac 10/2/21

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	2.8	Good				
2	3.0	Good				
3	1.3	Good				
4	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-day

Project Name: Federal BQ Battery

Project #: 125C3440

Project Manager:
Becky Haskell
Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 4

Cooler Temp(including CF): see remarks

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. 2110057	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)
09301	0920	S	TP1-2	Jar		001	X	X								X
	0930		TP1-6			002										
	0940		TP1-10			003										
	1025		TP1-12			004										
	1140		TP2-2			005										
	1200		TP3-2			006										
	1205		TP3-6			007										
	1215		TP3-10			008										
	1250		TP3-16			009										
	1330		TP3-19			010										
	1350		TP4-2			011										
↓	1415	↓	TP4-6	↓	↓	012	↓	↓								↓

Chloride Method 300

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/1/21	0800	Zach Comino			10/1/21	800
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/1/21	800		SGL	courier	10/2/21	9:15

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com: Along with Becky Haskell listed above. Direct Bill to EOG Chase Settle

2.8±0=2.8°C
3.0±0=3.0°C
1.3±0=1.3°C
5.3±0=5.3°C

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

Chain-of-Custody Record

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

Client: GHD

Mailing Address: 324 W. Main St. 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: Federal BQ Battery

Project #: 125644O

Project Manager:
Becky Haskell
Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 4

Cooler Temp(including CF): See remarks

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride 300
09301	1440	S	TPS-2	Jar		013	X	X								X	X
"	1455	"	TPS-6	"		014	X	X								X	X

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/1/21	0800	Zach Comino				
10/1/21	800				10/1/21	800
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
			SGA	courier	10/2/21	9:15

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com: Along with Becky Haskell listed above. Direct Bill to EOG Chase Settle

2.8±0=2.8°C
3.0±0=3.0°C
1.3±0=1.3°C
5.3±0=5.3°C

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

October 25, 2021

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

RE: Federal BQ Battery OrderNo.: 2110731

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 3 sample(s) on 10/15/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2110731**
Date Reported: **10/25/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** TP5-12
Project: Federal BQ Battery **Collection Date:** 10/13/2021 2:25:00 PM
Lab ID: 2110731-001 **Matrix:** SOIL **Received Date:** 10/15/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	180	60		mg/Kg	20	10/21/2021 10:23:18 AM	63453
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	1000	88		mg/Kg	10	10/21/2021 5:47:30 PM	63362
Motor Oil Range Organics (MRO)	980	440		mg/Kg	10	10/21/2021 5:47:30 PM	63362
Surr: DNOP	0	70-130	S	%Rec	10	10/21/2021 5:47:30 PM	63362
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	63	4.6		mg/Kg	1	10/21/2021 9:11:00 AM	63350
Surr: BFB	319	70-130	S	%Rec	1	10/21/2021 9:11:00 AM	63350
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	10/21/2021 9:11:00 AM	63350
Toluene	ND	0.046		mg/Kg	1	10/21/2021 9:11:00 AM	63350
Ethylbenzene	0.19	0.046		mg/Kg	1	10/21/2021 9:11:00 AM	63350
Xylenes, Total	1.2	0.093		mg/Kg	1	10/21/2021 9:11:00 AM	63350
Surr: 4-Bromofluorobenzene	127	70-130		%Rec	1	10/21/2021 9:11:00 AM	63350

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 **2110731**
Date Reported: **10/25/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP5-16
Project: Federal BQ Battery
Collection Date: 10/13/2021 2:45:00 PM
Lab ID: 2110731-002 **Matrix:** SOIL **Received Date:** 10/15/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	280	60		mg/Kg	20	10/21/2021 11:00:31 AM	63453
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	200	19		mg/Kg	2	10/21/2021 2:40:27 PM	63362
Motor Oil Range Organics (MRO)	160	94		mg/Kg	2	10/21/2021 2:40:27 PM	63362
Surr: DNOP	98.7	70-130		%Rec	2	10/21/2021 2:40:27 PM	63362
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	19	4.7		mg/Kg	1	10/21/2021 9:30:00 AM	63350
Surr: BFB	279	70-130	S	%Rec	1	10/21/2021 9:30:00 AM	63350
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/21/2021 9:30:00 AM	63350
Toluene	ND	0.047		mg/Kg	1	10/21/2021 9:30:00 AM	63350
Ethylbenzene	0.083	0.047		mg/Kg	1	10/21/2021 9:30:00 AM	63350
Xylenes, Total	0.35	0.095		mg/Kg	1	10/21/2021 9:30:00 AM	63350
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	10/21/2021 9:30:00 AM	63350

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 **2110731**
Date Reported: **10/25/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP5-20
Project: Federal BQ Battery
Collection Date: 10/13/2021 3:00:00 PM
Lab ID: 2110731-003 **Matrix:** SOIL **Received Date:** 10/15/2021 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	860	60		mg/Kg	20	10/21/2021 11:12:56 AM	63453
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	340	18		mg/Kg	2	10/21/2021 3:07:10 PM	63362
Motor Oil Range Organics (MRO)	220	90		mg/Kg	2	10/21/2021 3:07:10 PM	63362
Surr: DNOP	95.1	70-130		%Rec	2	10/21/2021 3:07:10 PM	63362
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	18	4.9		mg/Kg	1	10/21/2021 9:50:00 AM	63350
Surr: BFB	263	70-130	S	%Rec	1	10/21/2021 9:50:00 AM	63350
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/21/2021 9:50:00 AM	63350
Toluene	ND	0.049		mg/Kg	1	10/21/2021 9:50:00 AM	63350
Ethylbenzene	0.073	0.049		mg/Kg	1	10/21/2021 9:50:00 AM	63350
Xylenes, Total	0.24	0.097		mg/Kg	1	10/21/2021 9:50:00 AM	63350
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	10/21/2021 9:50:00 AM	63350

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#: **2110731**

25-Oct-21

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **MB-63453**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **63453**	RunNo: **82261**
Prep Date: **10/21/2021**	Analysis Date: **10/21/2021**	SeqNo: **2915918** Units: **mg/Kg**

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

Sample ID: **LCS-63453**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **63453**	RunNo: **82261**
Prep Date: **10/21/2021**	Analysis Date: **10/21/2021**	SeqNo: **2915919** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
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#: **2110731**

25-Oct-21

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **MB-63425**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **63425**	RunNo: **82185**
Prep Date: **10/20/2021**	Analysis Date: **10/20/2021**	SeqNo: **2913065** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.5		10.00		94.7	70	130			

Sample ID: **LCS-63425**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **63425**	RunNo: **82185**
Prep Date: **10/20/2021**	Analysis Date: **10/20/2021**	SeqNo: **2913066** 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			

Sample ID: **LCS-63362**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **63362**	RunNo: **82185**
Prep Date: **10/18/2021**	Analysis Date: **10/20/2021**	SeqNo: **2913259** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	110	68.9	135			
Surr: DNOP	5.4		5.000		109	70	130			

Sample ID: **MB-63362**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **63362**	RunNo: **82185**
Prep Date: **10/18/2021**	Analysis Date: **10/20/2021**	SeqNo: **2913260** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.6	70	130			

Sample ID: **LCS-63403**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **63403**	RunNo: **82247**
Prep Date: **10/19/2021**	Analysis Date: **10/21/2021**	SeqNo: **2915327** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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#: **2110731**

25-Oct-21

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **mb-63350** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **63350** RunNo: **82158**

Prep Date: **10/18/2021** Analysis Date: **10/20/2021** SeqNo: **2911926** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	70	130			

Sample ID: **lcs-63350** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **63350** RunNo: **82158**

Prep Date: **10/18/2021** Analysis Date: **10/20/2021** SeqNo: **2911928** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	118	78.6	131			
Surr: BFB	1100		1000		114	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#: **2110731**

25-Oct-21

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **mb-63350**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **63350**	RunNo: **82158**
Prep Date: **10/18/2021**	Analysis Date: **10/20/2021**	SeqNo: **2911966** 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	0.90		1.000		89.8	70	130			

Sample ID: **lcs-63350**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **63350**	RunNo: **82158**
Prep Date: **10/18/2021**	Analysis Date: **10/20/2021**	SeqNo: **2911968** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.2	80	120			
Toluene	0.93	0.050	1.000	0	93.0	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.7	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.5	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		90.7	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

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: 2110731 | RcptNo: 1

Received By: Cheyenne Cason 10/15/2021 7:20:00 AM

Completed By: Isaiah Ortiz 10/15/2021 8:39:34 AM

Reviewed By: JR 10/15/21

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
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: KRA 10/15/21

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Not Present			
2	5.6	Good	Not Present			

Chain-of-Custody Record

Client: GHD

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

Phone #: (505)377-4218

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

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

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

Project Name: Federal BQ Battery

Project #: 125634.40

Project Manager:
Becky Haskell
Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 2 1.6 - 0 = 1.6

Cooler Temp(including CF): 5.6 - 0 = 5.6

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2110731	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
10/13/21	1425	S	TPS-12	Jar		001	X	X									Y
〃	1445	〃	TPS-16	〃		002	〃	〃									〃
〃	1500	〃	TPS-20	〃		003	〃	〃									〃

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/14/21	0800	Zach Comino				
10/14/21	1900			courier	10/14/21	800

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com: Along with Becky Haskell listed above.
Direct Bill to EOG Chase Settle

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

October 26, 2021

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

RE: Federal BQ Battery OrderNo.: 2110772

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 6 sample(s) on 10/16/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2110772**
Date Reported: **10/26/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** TP4-17
Project: Federal BQ Battery **Collection Date:** 10/14/2021 12:25:00 PM
Lab ID: 2110772-001 **Matrix:** SOIL **Received Date:** 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	390	60		mg/Kg	20	10/22/2021 2:20:27 AM	63459
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	5100	160		mg/Kg	20	10/20/2021 9:25:52 PM	63399
Motor Oil Range Organics (MRO)	2200	800		mg/Kg	20	10/20/2021 9:25:52 PM	63399
Surr: DNOP	0	70-130	S	%Rec	20	10/20/2021 9:25:52 PM	63399
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	790	92		mg/Kg	20	10/22/2021 2:48:00 AM	63381
Surr: BFB	345	70-130	S	%Rec	20	10/22/2021 2:48:00 AM	63381
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.46		mg/Kg	20	10/22/2021 2:48:00 AM	63381
Toluene	ND	0.92		mg/Kg	20	10/22/2021 2:48:00 AM	63381
Ethylbenzene	8.1	0.92		mg/Kg	20	10/22/2021 2:48:00 AM	63381
Xylenes, Total	6.2	1.8		mg/Kg	20	10/22/2021 2:48:00 AM	63381
Surr: 4-Bromofluorobenzene	162	70-130	S	%Rec	20	10/22/2021 2:48:00 AM	63381

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 **2110772**
Date Reported: **10/26/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP4-20
Project: Federal BQ Battery
Collection Date: 10/14/2021 12:40:00 PM
Lab ID: 2110772-002 **Matrix:** SOIL **Received Date:** 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	230	60		mg/Kg	20	10/22/2021 3:22:30 AM	63465
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	4100	160		mg/Kg	20	10/20/2021 9:38:11 PM	63399
Motor Oil Range Organics (MRO)	1900	780		mg/Kg	20	10/20/2021 9:38:11 PM	63399
Surr: DNOP	0	70-130	S	%Rec	20	10/20/2021 9:38:11 PM	63399
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	1100	93		mg/Kg	20	10/22/2021 3:07:00 AM	63381
Surr: BFB	371	70-130	S	%Rec	20	10/22/2021 3:07:00 AM	63381
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	0.63	0.46		mg/Kg	20	10/22/2021 3:07:00 AM	63381
Toluene	ND	0.93		mg/Kg	20	10/22/2021 3:07:00 AM	63381
Ethylbenzene	9.8	0.93		mg/Kg	20	10/22/2021 3:07:00 AM	63381
Xylenes, Total	12	1.9		mg/Kg	20	10/22/2021 3:07:00 AM	63381
Surr: 4-Bromofluorobenzene	172	70-130	S	%Rec	20	10/22/2021 3:07:00 AM	63381

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 **2110772**
Date Reported: **10/26/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP2-10
Project: Federal BQ Battery
Collection Date: 10/14/2021 1:35:00 PM
Lab ID: 2110772-003 **Matrix:** SOIL **Received Date:** 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	230	60		mg/Kg	20	10/22/2021 3:34:55 AM	63465
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	690	72		mg/Kg	10	10/21/2021 6:14:27 PM	63399
Motor Oil Range Organics (MRO)	490	360		mg/Kg	10	10/21/2021 6:14:27 PM	63399
Surr: DNOP	0	70-130	S	%Rec	10	10/21/2021 6:14:27 PM	63399
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	93	93		mg/Kg	20	10/22/2021 3:27:00 AM	63381
Surr: BFB	157	70-130	S	%Rec	20	10/22/2021 3:27:00 AM	63381
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.47		mg/Kg	20	10/22/2021 3:27:00 AM	63381
Toluene	ND	0.93		mg/Kg	20	10/22/2021 3:27:00 AM	63381
Ethylbenzene	ND	0.93		mg/Kg	20	10/22/2021 3:27:00 AM	63381
Xylenes, Total	ND	1.9		mg/Kg	20	10/22/2021 3:27:00 AM	63381
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	20	10/22/2021 3:27:00 AM	63381

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 **2110772**
Date Reported: **10/26/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP2-12
Project: Federal BQ Battery
Collection Date: 10/14/2021 2:15:00 PM
Lab ID: 2110772-004 **Matrix:** SOIL **Received Date:** 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	210	60		mg/Kg	20	10/22/2021 3:47:20 AM	63465
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	92	14		mg/Kg	2	10/21/2021 3:33:54 PM	63399
Motor Oil Range Organics (MRO)	120	72		mg/Kg	2	10/21/2021 3:33:54 PM	63399
Surr: DNOP	111	70-130		%Rec	2	10/21/2021 3:33:54 PM	63399
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/22/2021 3:46:00 AM	63381
Surr: BFB	157	70-130	S	%Rec	1	10/22/2021 3:46:00 AM	63381
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.024		mg/Kg	1	10/22/2021 3:46:00 AM	63381
Toluene	ND	0.048		mg/Kg	1	10/22/2021 3:46:00 AM	63381
Ethylbenzene	ND	0.048		mg/Kg	1	10/22/2021 3:46:00 AM	63381
Xylenes, Total	ND	0.096		mg/Kg	1	10/22/2021 3:46:00 AM	63381
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	10/22/2021 3:46:00 AM	63381

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 **2110772**
Date Reported: **10/26/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** TP2-15
Project: Federal BQ Battery **Collection Date:** 10/14/2021 2:50:00 PM
Lab ID: 2110772-005 **Matrix:** SOIL **Received Date:** 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	100	60		mg/Kg	20	10/22/2021 4:24:34 AM	63465
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	140	16		mg/Kg	2	10/21/2021 4:01:01 PM	63399
Motor Oil Range Organics (MRO)	130	81		mg/Kg	2	10/21/2021 4:01:01 PM	63399
Surr: DNOP	102	70-130		%Rec	2	10/21/2021 4:01:01 PM	63399
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/22/2021 4:06:00 AM	63381
Surr: BFB	150	70-130	S	%Rec	1	10/22/2021 4:06:00 AM	63381
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	10/22/2021 4:06:00 AM	63381
Toluene	ND	0.047		mg/Kg	1	10/22/2021 4:06:00 AM	63381
Ethylbenzene	ND	0.047		mg/Kg	1	10/22/2021 4:06:00 AM	63381
Xylenes, Total	ND	0.094		mg/Kg	1	10/22/2021 4:06:00 AM	63381
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	10/22/2021 4:06:00 AM	63381

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 **2110772**
Date Reported: **10/26/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP2-19
Project: Federal BQ Battery
Collection Date: 10/14/2021 3:15:00 PM
Lab ID: 2110772-006 **Matrix:** SOIL **Received Date:** 10/16/2021 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **VP**	
Chloride	150	60		mg/Kg	20	10/22/2021 8:26:12 AM	63465
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	68	17		mg/Kg	2	10/21/2021 4:27:18 PM	63399
Motor Oil Range Organics (MRO)	280	87		mg/Kg	2	10/21/2021 4:27:18 PM	63399
Surr: DNOP	110	70-130		%Rec	2	10/21/2021 4:27:18 PM	63399
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/22/2021 4:26:00 AM	63381
Surr: BFB	113	70-130		%Rec	1	10/22/2021 4:26:00 AM	63381
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**	
Benzene	ND	0.023		mg/Kg	1	10/22/2021 4:26:00 AM	63381
Toluene	ND	0.046		mg/Kg	1	10/22/2021 4:26:00 AM	63381
Ethylbenzene	ND	0.046		mg/Kg	1	10/22/2021 4:26:00 AM	63381
Xylenes, Total	ND	0.093		mg/Kg	1	10/22/2021 4:26:00 AM	63381
Surr: 4-Bromofluorobenzene	85.9	70-130		%Rec	1	10/22/2021 4:26:00 AM	63381

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#: **2110772**

26-Oct-21

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **MB-63459** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**

Client ID: **PBS** Batch ID: **63459** RunNo: **82233**

Prep Date: **10/21/2021** Analysis Date: **10/21/2021** SeqNo: **2915778** Units: **mg/Kg**

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

Sample ID: **LCS-63459** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**

Client ID: **LCSS** Batch ID: **63459** RunNo: **82233**

Prep Date: **10/21/2021** Analysis Date: **10/21/2021** SeqNo: **2915779** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.3	90	110			

Sample ID: **MB-63465** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**

Client ID: **PBS** Batch ID: **63465** RunNo: **82233**

Prep Date: **10/21/2021** Analysis Date: **10/22/2021** SeqNo: **2915810** Units: **mg/Kg**

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

Sample ID: **LCS-63465** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**

Client ID: **LCSS** Batch ID: **63465** RunNo: **82233**

Prep Date: **10/21/2021** Analysis Date: **10/22/2021** SeqNo: **2915811** Units: **mg/Kg**

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2110772**

26-Oct-21

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **LCS-63399** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **LCSS** Batch ID: **63399** RunNo: **82184**

Prep Date: **10/19/2021** Analysis Date: **10/21/2021** SeqNo: **2914762** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.1	68.9	135			
Surr: DNOP	4.5		5.000		90.8	70	130			

Sample ID: **MB-63399** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**

Client ID: **PBS** Batch ID: **63399** RunNo: **82184**

Prep Date: **10/19/2021** Analysis Date: **10/21/2021** SeqNo: **2914766** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		96.9	70	130			

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#: **2110772**

26-Oct-21

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **lcs-63381** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **LCSS** Batch ID: **63381** RunNo: **82267**

Prep Date: **10/18/2021** Analysis Date: **10/21/2021** SeqNo: **2916259** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	117	78.6	131			
Surr: BFB	1200		1000		121	70	130			

Sample ID: **mb-63381** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **PBS** Batch ID: **63381** RunNo: **82267**

Prep Date: **10/18/2021** Analysis Date: **10/21/2021** SeqNo: **2916260** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	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#: **2110772**

26-Oct-21

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **lcs-63381** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **LCSS** Batch ID: **63381** RunNo: **82267**

Prep Date: **10/18/2021** Analysis Date: **10/21/2021** SeqNo: **2916373** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.025	1.000	0	82.5	80	120			
Toluene	0.85	0.050	1.000	0	84.6	80	120			
Ethylbenzene	0.87	0.050	1.000	0	86.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.1	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		89.8	70	130			

Sample ID: **mb-63381** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **63381** RunNo: **82267**

Prep Date: **10/18/2021** Analysis Date: **10/21/2021** SeqNo: **2916374** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		92.3	70	130			

Qualifiers:

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

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: **2110772** RcptNo: **1**

Received By: **Cheyenne Cason** **10/16/2021 7:50:00 AM**

Completed By: **Cheyenne Cason** **10/16/2021 8:30:08 AM**

Reviewed By: JO 10/18/21

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 10/16/21

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good				
2	0.8	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: Federal BQ Battery

Project #: 12563440

Project Manager:
Becky Haskell
Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 2 2.6-0=2.6

Cooler Temp(including CF): 0.8-0=0.8

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride Method 300
10/14/21	1225	S	TP4-17	Jar		2110772-001	X	X									X
	1240		TP4-20			002											
	1335		TP2-10			003											
	1415		TP2-12			004											
	1450		TP2-15			005											
	1515		TP2-18			006											

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/15/21	0800	Zach Comino				
10/15/21	1100			Courier	10/16/21	0750

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com: Along with Becky Haskell listed above.
Direct Bill to EOG Chase Settle

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

November 01, 2021

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

RE: Federal 13Q Battery OrderNo.: 2110A71

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 23 sample(s) on 10/22/2021 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 **2110A71**
Date Reported: **11/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP6-2
Project: Federal 13Q Battery
Collection Date: 10/20/2021 7:40:00 AM
Lab ID: 2110A71-001 **Matrix:** SOIL **Received Date:** 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	2700	150		mg/Kg	50	10/29/2021 9:37:46 AM	63622
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/28/2021 11:37:47 AM	63551
Surr: BFB	92.5	70-130		%Rec	1	10/28/2021 11:37:47 AM	63551
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/27/2021 10:28:02 PM	63557
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/27/2021 10:28:02 PM	63557
Surr: DNOP	121	70-130		%Rec	1	10/27/2021 10:28:02 PM	63557
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	10/28/2021 11:37:47 AM	63551
Toluene	ND	0.048		mg/Kg	1	10/28/2021 11:37:47 AM	63551
Ethylbenzene	ND	0.048		mg/Kg	1	10/28/2021 11:37:47 AM	63551
Xylenes, Total	ND	0.096		mg/Kg	1	10/28/2021 11:37:47 AM	63551
Surr: 1,2-Dichloroethane-d4	98.5	70-130		%Rec	1	10/28/2021 11:37:47 AM	63551
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	10/28/2021 11:37:47 AM	63551
Surr: Dibromofluoromethane	102	70-130		%Rec	1	10/28/2021 11:37:47 AM	63551
Surr: Toluene-d8	103	70-130		%Rec	1	10/28/2021 11:37:47 AM	63551

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 **2110A71**
Date Reported: **11/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** TP6-4
Project: Federal 13Q Battery **Collection Date:** 10/20/2021 7:50:00 AM
Lab ID: 2110A71-002 **Matrix:** SOIL **Received Date:** 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	2500	150		mg/Kg	50	10/29/2021 9:50:11 AM	63622
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/28/2021 12:52:58 PM	63579
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/28/2021 12:52:58 PM	63579
Surr: DNOP	87.4	70-130		%Rec	1	10/28/2021 12:52:58 PM	63579
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/27/2021 9:25:25 PM	63554
Surr: BFB	105	70-130		%Rec	1	10/27/2021 9:25:25 PM	63554
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/27/2021 9:25:25 PM	63554
Toluene	ND	0.050		mg/Kg	1	10/27/2021 9:25:25 PM	63554
Ethylbenzene	ND	0.050		mg/Kg	1	10/27/2021 9:25:25 PM	63554
Xylenes, Total	ND	0.10		mg/Kg	1	10/27/2021 9:25:25 PM	63554
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	10/27/2021 9:25:25 PM	63554

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 **2110A71**
Date Reported: **11/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP6-8
Project: Federal 13Q Battery
Collection Date: 10/20/2021 7:55:00 AM
Lab ID: 2110A71-003 **Matrix:** SOIL **Received Date:** 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	1500	60		mg/Kg	20	10/27/2021 9:07:16 PM	63622
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/27/2021 4:14:35 PM	63579
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/27/2021 4:14:35 PM	63579
Surr: DNOP	56.6	70-130	S	%Rec	1	10/27/2021 4:14:35 PM	63579
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	10/27/2021 10:35:36 PM	63554
Surr: BFB	104	70-130		%Rec	5	10/27/2021 10:35:36 PM	63554
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	10/27/2021 10:35:36 PM	63554
Toluene	ND	0.24		mg/Kg	5	10/27/2021 10:35:36 PM	63554
Ethylbenzene	ND	0.24		mg/Kg	5	10/27/2021 10:35:36 PM	63554
Xylenes, Total	ND	0.49		mg/Kg	5	10/27/2021 10:35:36 PM	63554
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	5	10/27/2021 10:35:36 PM	63554

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 **2110A71**
Date Reported: **11/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP6-9
Project: Federal 13Q Battery
Collection Date: 10/20/2021 8:00:00 AM
Lab ID: 2110A71-004 **Matrix:** SOIL **Received Date:** 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	190	60		mg/Kg	20	10/27/2021 9:19:40 PM	63622
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	10/27/2021 5:07:26 PM	63579
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	10/27/2021 5:07:26 PM	63579
Surr: DNOP	96.9	70-130		%Rec	1	10/27/2021 5:07:26 PM	63579
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/27/2021 11:45:46 PM	63554
Surr: BFB	103	70-130		%Rec	1	10/27/2021 11:45:46 PM	63554
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/27/2021 11:45:46 PM	63554
Toluene	ND	0.048		mg/Kg	1	10/27/2021 11:45:46 PM	63554
Ethylbenzene	ND	0.048		mg/Kg	1	10/27/2021 11:45:46 PM	63554
Xylenes, Total	ND	0.095		mg/Kg	1	10/27/2021 11:45:46 PM	63554
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	1	10/27/2021 11:45:46 PM	63554

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 **2110A71**
Date Reported: **11/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP7-S
Project: Federal 13Q Battery
Collection Date: 10/20/2021 8:25:00 AM
Lab ID: 2110A71-005 **Matrix:** SOIL **Received Date:** 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	10/27/2021 9:32:05 PM	63622
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	10/27/2021 5:18:10 PM	63579
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/27/2021 5:18:10 PM	63579
Surr: DNOP	74.7	70-130		%Rec	1	10/27/2021 5:18:10 PM	63579
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/28/2021 1:19:04 AM	63554
Surr: BFB	103	70-130		%Rec	1	10/28/2021 1:19:04 AM	63554
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/28/2021 1:19:04 AM	63554
Toluene	ND	0.049		mg/Kg	1	10/28/2021 1:19:04 AM	63554
Ethylbenzene	ND	0.049		mg/Kg	1	10/28/2021 1:19:04 AM	63554
Xylenes, Total	ND	0.098		mg/Kg	1	10/28/2021 1:19:04 AM	63554
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	10/28/2021 1:19:04 AM	63554

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 **2110A71**
Date Reported: **11/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP7-2
Project: Federal 13Q Battery
Collection Date: 10/20/2021 8:30:00 AM
Lab ID: 2110A71-006 **Matrix:** SOIL **Received Date:** 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	10/27/2021 10:09:18 PM	63622
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/27/2021 5:28:57 PM	63579
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/27/2021 5:28:57 PM	63579
Surr: DNOP	106	70-130		%Rec	1	10/27/2021 5:28:57 PM	63579
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/28/2021 1:42:23 AM	63554
Surr: BFB	103	70-130		%Rec	1	10/28/2021 1:42:23 AM	63554
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/28/2021 1:42:23 AM	63554
Toluene	ND	0.048		mg/Kg	1	10/28/2021 1:42:23 AM	63554
Ethylbenzene	ND	0.048		mg/Kg	1	10/28/2021 1:42:23 AM	63554
Xylenes, Total	ND	0.096		mg/Kg	1	10/28/2021 1:42:23 AM	63554
Surr: 4-Bromofluorobenzene	88.4	70-130		%Rec	1	10/28/2021 1:42:23 AM	63554

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 **2110A71**
Date Reported: **11/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP8-S
Project: Federal 13Q Battery
Collection Date: 10/20/2021 8:35:00 AM
Lab ID: 2110A71-007 **Matrix:** SOIL **Received Date:** 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	59		mg/Kg	20	10/27/2021 10:21:42 PM	63622
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/27/2021 5:39:44 PM	63579
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/27/2021 5:39:44 PM	63579
Surr: DNOP	78.5	70-130		%Rec	1	10/27/2021 5:39:44 PM	63579
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/28/2021 2:05:38 AM	63554
Surr: BFB	102	70-130		%Rec	1	10/28/2021 2:05:38 AM	63554
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/28/2021 2:05:38 AM	63554
Toluene	ND	0.048		mg/Kg	1	10/28/2021 2:05:38 AM	63554
Ethylbenzene	ND	0.048		mg/Kg	1	10/28/2021 2:05:38 AM	63554
Xylenes, Total	ND	0.097		mg/Kg	1	10/28/2021 2:05:38 AM	63554
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	1	10/28/2021 2:05:38 AM	63554

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 **2110A71**
Date Reported: **11/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP8-2
Project: Federal 13Q Battery
Collection Date: 10/20/2021 8:40:00 AM
Lab ID: 2110A71-008 **Matrix:** SOIL **Received Date:** 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	10/27/2021 10:34:06 PM	63622
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/27/2021 5:50:29 PM	63579
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/27/2021 5:50:29 PM	63579
Surr: DNOP	100	70-130		%Rec	1	10/27/2021 5:50:29 PM	63579
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/28/2021 2:28:52 AM	63554
Surr: BFB	103	70-130		%Rec	1	10/28/2021 2:28:52 AM	63554
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/28/2021 2:28:52 AM	63554
Toluene	ND	0.049		mg/Kg	1	10/28/2021 2:28:52 AM	63554
Ethylbenzene	ND	0.049		mg/Kg	1	10/28/2021 2:28:52 AM	63554
Xylenes, Total	ND	0.099		mg/Kg	1	10/28/2021 2:28:52 AM	63554
Surr: 4-Bromofluorobenzene	89.2	70-130		%Rec	1	10/28/2021 2:28:52 AM	63554

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 **2110A71**
Date Reported: **11/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP9-S
Project: Federal 13Q Battery
Collection Date: 10/20/2021 8:45:00 AM
Lab ID: 2110A71-009 **Matrix:** SOIL **Received Date:** 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	10/27/2021 10:46:30 PM	63622
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/27/2021 6:01:14 PM	63579
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/27/2021 6:01:14 PM	63579
Surr: DNOP	116	70-130		%Rec	1	10/27/2021 6:01:14 PM	63579
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/28/2021 2:52:07 AM	63554
Surr: BFB	103	70-130		%Rec	1	10/28/2021 2:52:07 AM	63554
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/28/2021 2:52:07 AM	63554
Toluene	ND	0.049		mg/Kg	1	10/28/2021 2:52:07 AM	63554
Ethylbenzene	ND	0.049		mg/Kg	1	10/28/2021 2:52:07 AM	63554
Xylenes, Total	ND	0.098		mg/Kg	1	10/28/2021 2:52:07 AM	63554
Surr: 4-Bromofluorobenzene	87.5	70-130		%Rec	1	10/28/2021 2:52:07 AM	63554

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 **2110A71**
Date Reported: **11/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP9-2
Project: Federal 13Q Battery
Collection Date: 10/20/2021 8:50:00 AM
Lab ID: 2110A71-010 **Matrix:** SOIL **Received Date:** 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	10/27/2021 10:58:55 PM	63622
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/27/2021 6:22:36 PM	63579
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/27/2021 6:22:36 PM	63579
Surr: DNOP	98.4	70-130		%Rec	1	10/27/2021 6:22:36 PM	63579
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/28/2021 3:15:20 AM	63554
Surr: BFB	100	70-130		%Rec	1	10/28/2021 3:15:20 AM	63554
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/28/2021 3:15:20 AM	63554
Toluene	ND	0.050		mg/Kg	1	10/28/2021 3:15:20 AM	63554
Ethylbenzene	ND	0.050		mg/Kg	1	10/28/2021 3:15:20 AM	63554
Xylenes, Total	ND	0.099		mg/Kg	1	10/28/2021 3:15:20 AM	63554
Surr: 4-Bromofluorobenzene	86.1	70-130		%Rec	1	10/28/2021 3:15:20 AM	63554

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 **2110A71**
Date Reported: **11/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP10-S
Project: Federal 13Q Battery
Collection Date: 10/20/2021 9:05:00 AM
Lab ID: 2110A71-011 **Matrix:** SOIL **Received Date:** 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	60		mg/Kg	20	10/27/2021 11:11:19 PM	63622
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	10/27/2021 6:33:19 PM	63579
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	10/27/2021 6:33:19 PM	63579
Surr: DNOP	91.6	70-130		%Rec	1	10/27/2021 6:33:19 PM	63579
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/28/2021 3:38:32 AM	63554
Surr: BFB	102	70-130		%Rec	1	10/28/2021 3:38:32 AM	63554
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/28/2021 3:38:32 AM	63554
Toluene	ND	0.048		mg/Kg	1	10/28/2021 3:38:32 AM	63554
Ethylbenzene	ND	0.048		mg/Kg	1	10/28/2021 3:38:32 AM	63554
Xylenes, Total	ND	0.097		mg/Kg	1	10/28/2021 3:38:32 AM	63554
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	10/28/2021 3:38:32 AM	63554

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 **2110A71**
Date Reported: **11/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP10-2
Project: Federal 13Q Battery
Collection Date: 10/20/2021 9:10:00 AM
Lab ID: 2110A71-012 **Matrix:** SOIL **Received Date:** 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	150	60		mg/Kg	20	10/27/2021 11:23:44 PM	63622
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/27/2021 7:05:20 PM	63579
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/27/2021 7:05:20 PM	63579
Surr: DNOP	98.1	70-130		%Rec	1	10/27/2021 7:05:20 PM	63579
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/28/2021 4:01:45 AM	63554
Surr: BFB	102	70-130		%Rec	1	10/28/2021 4:01:45 AM	63554
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/28/2021 4:01:45 AM	63554
Toluene	ND	0.048		mg/Kg	1	10/28/2021 4:01:45 AM	63554
Ethylbenzene	ND	0.048		mg/Kg	1	10/28/2021 4:01:45 AM	63554
Xylenes, Total	ND	0.096		mg/Kg	1	10/28/2021 4:01:45 AM	63554
Surr: 4-Bromofluorobenzene	87.2	70-130		%Rec	1	10/28/2021 4:01:45 AM	63554

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 **2110A71**
Date Reported: **11/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP10-4
Project: Federal 13Q Battery
Collection Date: 10/20/2021 9:20:00 AM
Lab ID: 2110A71-013 **Matrix:** SOIL **Received Date:** 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	ND	61		mg/Kg	20	10/27/2021 11:36:08 PM	63622
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/27/2021 7:15:59 PM	63579
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/27/2021 7:15:59 PM	63579
Surr: DNOP	98.1	70-130		%Rec	1	10/27/2021 7:15:59 PM	63579
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/28/2021 4:24:54 AM	63554
Surr: BFB	100	70-130		%Rec	1	10/28/2021 4:24:54 AM	63554
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/28/2021 4:24:54 AM	63554
Toluene	ND	0.049		mg/Kg	1	10/28/2021 4:24:54 AM	63554
Ethylbenzene	ND	0.049		mg/Kg	1	10/28/2021 4:24:54 AM	63554
Xylenes, Total	ND	0.098		mg/Kg	1	10/28/2021 4:24:54 AM	63554
Surr: 4-Bromofluorobenzene	86.5	70-130		%Rec	1	10/28/2021 4:24:54 AM	63554

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 **2110A71**
Date Reported: **11/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP11-2
Project: Federal 13Q Battery
Collection Date: 10/20/2021 9:30:00 AM
Lab ID: 2110A71-014 **Matrix:** SOIL **Received Date:** 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	590	60		mg/Kg	20	10/27/2021 11:48:33 PM	63622
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/27/2021 7:26:38 PM	63579
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/27/2021 7:26:38 PM	63579
Surr: DNOP	92.1	70-130		%Rec	1	10/27/2021 7:26:38 PM	63579
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/28/2021 4:48:05 AM	63554
Surr: BFB	98.4	70-130		%Rec	1	10/28/2021 4:48:05 AM	63554
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	10/28/2021 4:48:05 AM	63554
Toluene	ND	0.046		mg/Kg	1	10/28/2021 4:48:05 AM	63554
Ethylbenzene	ND	0.046		mg/Kg	1	10/28/2021 4:48:05 AM	63554
Xylenes, Total	ND	0.092		mg/Kg	1	10/28/2021 4:48:05 AM	63554
Surr: 4-Bromofluorobenzene	84.2	70-130		%Rec	1	10/28/2021 4:48:05 AM	63554

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 **2110A71**
Date Reported: **11/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP11-4
Project: Federal 13Q Battery
Collection Date: 10/20/2021 9:45:00 AM
Lab ID: 2110A71-015 **Matrix:** SOIL **Received Date:** 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	270	60		mg/Kg	20	10/28/2021 9:48:46 AM	63626
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/27/2021 7:37:20 PM	63579
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/27/2021 7:37:20 PM	63579
Surr: DNOP	93.9	70-130		%Rec	1	10/27/2021 7:37:20 PM	63579
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/28/2021 11:37:22 AM	63554
Surr: BFB	102	70-130		%Rec	1	10/28/2021 11:37:22 AM	63554
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/28/2021 11:37:22 AM	63554
Toluene	ND	0.050		mg/Kg	1	10/28/2021 11:37:22 AM	63554
Ethylbenzene	ND	0.050		mg/Kg	1	10/28/2021 11:37:22 AM	63554
Xylenes, Total	ND	0.099		mg/Kg	1	10/28/2021 11:37:22 AM	63554
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	1	10/28/2021 11:37:22 AM	63554

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 **2110A71**
Date Reported: **11/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** TP12-S
Project: Federal 13Q Battery **Collection Date:** 10/20/2021
Lab ID: 2110A71-016 **Matrix:** SOIL **Received Date:** 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	60		mg/Kg	20	10/28/2021 10:25:58 AM	63626
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/27/2021 7:48:02 PM	63579
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/27/2021 7:48:02 PM	63579
Surr: DNOP	114	70-130		%Rec	1	10/27/2021 7:48:02 PM	63579
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/28/2021 12:00:57 PM	63554
Surr: BFB	105	70-130		%Rec	1	10/28/2021 12:00:57 PM	63554
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/28/2021 12:00:57 PM	63554
Toluene	ND	0.048		mg/Kg	1	10/28/2021 12:00:57 PM	63554
Ethylbenzene	ND	0.048		mg/Kg	1	10/28/2021 12:00:57 PM	63554
Xylenes, Total	ND	0.097		mg/Kg	1	10/28/2021 12:00:57 PM	63554
Surr: 4-Bromofluorobenzene	89.3	70-130		%Rec	1	10/28/2021 12:00:57 PM	63554

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 **2110A71**
Date Reported: **11/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP12-2
Project: Federal 13Q Battery
Collection Date: 10/20/2021 10:05:00 AM
Lab ID: 2110A71-017 **Matrix:** SOIL **Received Date:** 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	60		mg/Kg	20	10/28/2021 11:03:11 AM	63626
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/27/2021 7:58:41 PM	63579
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/27/2021 7:58:41 PM	63579
Surr: DNOP	82.1	70-130		%Rec	1	10/27/2021 7:58:41 PM	63579
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/28/2021 12:24:35 PM	63554
Surr: BFB	102	70-130		%Rec	1	10/28/2021 12:24:35 PM	63554
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/28/2021 12:24:35 PM	63554
Toluene	ND	0.050		mg/Kg	1	10/28/2021 12:24:35 PM	63554
Ethylbenzene	ND	0.050		mg/Kg	1	10/28/2021 12:24:35 PM	63554
Xylenes, Total	ND	0.099		mg/Kg	1	10/28/2021 12:24:35 PM	63554
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	1	10/28/2021 12:24:35 PM	63554

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 **2110A71**
Date Reported: **11/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP13-S
Project: Federal 13Q Battery
Collection Date: 10/20/2021 10:15:00 AM
Lab ID: 2110A71-018 **Matrix:** SOIL **Received Date:** 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	60		mg/Kg	20	10/28/2021 11:15:35 AM	63626
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/27/2021 8:09:20 PM	63579
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/27/2021 8:09:20 PM	63579
Surr: DNOP	83.3	70-130		%Rec	1	10/27/2021 8:09:20 PM	63579
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/28/2021 3:08:20 PM	63554
Surr: BFB	104	70-130		%Rec	1	10/28/2021 3:08:20 PM	63554
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	10/28/2021 3:08:20 PM	63554
Toluene	ND	0.046		mg/Kg	1	10/28/2021 3:08:20 PM	63554
Ethylbenzene	ND	0.046		mg/Kg	1	10/28/2021 3:08:20 PM	63554
Xylenes, Total	ND	0.092		mg/Kg	1	10/28/2021 3:08:20 PM	63554
Surr: 4-Bromofluorobenzene	88.1	70-130		%Rec	1	10/28/2021 3:08:20 PM	63554

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 **2110A71**
Date Reported: **11/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP13-2
Project: Federal 13Q Battery
Collection Date: 10/20/2021 10:20:00 AM
Lab ID: 2110A71-019 **Matrix:** SOIL **Received Date:** 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	320	60		mg/Kg	20	10/28/2021 11:52:49 AM	63626
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/27/2021 8:19:58 PM	63579
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/27/2021 8:19:58 PM	63579
Surr: DNOP	88.5	70-130		%Rec	1	10/27/2021 8:19:58 PM	63579
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/28/2021 3:31:34 PM	63554
Surr: BFB	103	70-130		%Rec	1	10/28/2021 3:31:34 PM	63554
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	10/28/2021 3:31:34 PM	63554
Toluene	ND	0.049		mg/Kg	1	10/28/2021 3:31:34 PM	63554
Ethylbenzene	ND	0.049		mg/Kg	1	10/28/2021 3:31:34 PM	63554
Xylenes, Total	ND	0.099		mg/Kg	1	10/28/2021 3:31:34 PM	63554
Surr: 4-Bromofluorobenzene	88.0	70-130		%Rec	1	10/28/2021 3:31:34 PM	63554

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 **2110A71**
Date Reported: **11/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP14-S
Project: Federal 13Q Battery
Collection Date: 10/20/2021 10:30:00 AM
Lab ID: 2110A71-020 **Matrix:** SOIL **Received Date:** 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	60		mg/Kg	20	10/28/2021 12:05:14 PM	63626
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/27/2021 8:30:35 PM	63579
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/27/2021 8:30:35 PM	63579
Surr: DNOP	86.7	70-130		%Rec	1	10/27/2021 8:30:35 PM	63579
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/28/2021 3:54:47 PM	63554
Surr: BFB	101	70-130		%Rec	1	10/28/2021 3:54:47 PM	63554
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/28/2021 3:54:47 PM	63554
Toluene	ND	0.049		mg/Kg	1	10/28/2021 3:54:47 PM	63554
Ethylbenzene	ND	0.049		mg/Kg	1	10/28/2021 3:54:47 PM	63554
Xylenes, Total	ND	0.097		mg/Kg	1	10/28/2021 3:54:47 PM	63554
Surr: 4-Bromofluorobenzene	87.1	70-130		%Rec	1	10/28/2021 3:54:47 PM	63554

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 **2110A71**
Date Reported: **11/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP14-2
Project: Federal 13Q Battery
Collection Date: 10/20/2021 10:35:00 AM
Lab ID: 2110A71-021 **Matrix:** SOIL **Received Date:** 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	60		mg/Kg	20	10/28/2021 12:17:38 PM	63626
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/27/2021 8:41:12 PM	63579
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/27/2021 8:41:12 PM	63579
Surr: DNOP	84.6	70-130		%Rec	1	10/27/2021 8:41:12 PM	63579
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/28/2021 4:18:05 PM	63554
Surr: BFB	104	70-130		%Rec	1	10/28/2021 4:18:05 PM	63554
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	10/28/2021 4:18:05 PM	63554
Toluene	ND	0.049		mg/Kg	1	10/28/2021 4:18:05 PM	63554
Ethylbenzene	ND	0.049		mg/Kg	1	10/28/2021 4:18:05 PM	63554
Xylenes, Total	ND	0.098		mg/Kg	1	10/28/2021 4:18:05 PM	63554
Surr: 4-Bromofluorobenzene	89.3	70-130		%Rec	1	10/28/2021 4:18:05 PM	63554

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 **2110A71**
Date Reported: **11/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP15-S
Project: Federal 13Q Battery
Collection Date: 10/20/2021 10:45:00 AM
Lab ID: 2110A71-022 **Matrix:** SOIL **Received Date:** 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	60		mg/Kg	20	10/28/2021 12:30:03 PM	63626
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	48	9.6		mg/Kg	1	10/29/2021 10:52:09 AM	63613
Motor Oil Range Organics (MRO)	250	48		mg/Kg	1	10/29/2021 10:52:09 AM	63613
Surr: DNOP	113	70-130		%Rec	1	10/29/2021 10:52:09 AM	63613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/28/2021 11:54:00 AM	63569
Surr: BFB	96.7	70-130		%Rec	1	10/28/2021 11:54:00 AM	63569
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.023		mg/Kg	1	10/28/2021 11:54:00 AM	63569
Toluene	ND	0.046		mg/Kg	1	10/28/2021 11:54:00 AM	63569
Ethylbenzene	ND	0.046		mg/Kg	1	10/28/2021 11:54:00 AM	63569
Xylenes, Total	ND	0.092		mg/Kg	1	10/28/2021 11:54:00 AM	63569
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	10/28/2021 11:54:00 AM	63569

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 **2110A71**
Date Reported: **11/1/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: TP15-2
Project: Federal 13Q Battery
Collection Date: 10/20/2021 10:50:00 AM
Lab ID: 2110A71-023 **Matrix:** SOIL **Received Date:** 10/22/2021 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	60		mg/Kg	20	10/28/2021 12:42:28 PM	63626
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/28/2021 4:30:36 PM	63613
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/28/2021 4:30:36 PM	63613
Surr: DNOP	144	70-130	S	%Rec	1	10/28/2021 4:30:36 PM	63613
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/28/2021 12:53:00 PM	63569
Surr: BFB	96.7	70-130		%Rec	1	10/28/2021 12:53:00 PM	63569
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	10/28/2021 12:53:00 PM	63569
Toluene	ND	0.050		mg/Kg	1	10/28/2021 12:53:00 PM	63569
Ethylbenzene	ND	0.050		mg/Kg	1	10/28/2021 12:53:00 PM	63569
Xylenes, Total	ND	0.099		mg/Kg	1	10/28/2021 12:53:00 PM	63569
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	10/28/2021 12:53:00 PM	63569

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#: **2110A71**

01-Nov-21

Client: GHD Midland

Project: Federal 13Q Battery

Sample ID: **MB-63622**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **63622**	RunNo: **82406**							
Prep Date: **10/27/2021**	Analysis Date: **10/27/2021**	SeqNo: **2923974**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-63622**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **63622**	RunNo: **82406**							
Prep Date: **10/27/2021**	Analysis Date: **10/27/2021**	SeqNo: **2923975**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.8	90	110			

Sample ID: **MB-63626**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **63626**	RunNo: **82438**							
Prep Date: **10/28/2021**	Analysis Date: **10/28/2021**	SeqNo: **2925244**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-63626**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **63626**	RunNo: **82438**							
Prep Date: **10/28/2021**	Analysis Date: **10/28/2021**	SeqNo: **2925245**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.2	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quanitative Limit
S	% Recovery outside of range due to dilution or matrix
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#: **2110A71**
01-Nov-21

Client: GHD Midland
Project: Federal 13Q Battery

Sample ID: **LCS-63557** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **63557** RunNo: **82349**
Prep Date: **10/26/2021** Analysis Date: **10/27/2021** SeqNo: **2922031** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	106	68.9	135			
Surr: DNOP	4.3		5.000		86.5	70	130			

Sample ID: **MB-63557** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **63557** RunNo: **82349**
Prep Date: **10/26/2021** Analysis Date: **10/27/2021** SeqNo: **2922032** 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		113	70	130			

Sample ID: **LCS-63579** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **63579** RunNo: **82349**
Prep Date: **10/26/2021** Analysis Date: **10/27/2021** SeqNo: **2923814** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.9	68.9	135			
Surr: DNOP	3.5		5.000		70.9	70	130			

Sample ID: **MB-63573** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **63573** RunNo: **82349**
Prep Date: **10/26/2021** Analysis Date: **10/28/2021** SeqNo: **2923815** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		126	70	130			

Sample ID: **MB-63579** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **63579** RunNo: **82349**
Prep Date: **10/26/2021** Analysis Date: **10/27/2021** SeqNo: **2923816** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.7		10.00		77.2	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#: **2110A71**
01-Nov-21

Client: GHD Midland
Project: Federal 13Q Battery

Sample ID: **2110A71-002AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **TP6-4** Batch ID: **63579** RunNo: **82425**
Prep Date: **10/26/2021** Analysis Date: **10/28/2021** SeqNo: **2924380** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	9.8	49.07	0	80.9	39.3	155			
Surr: DNOP	3.6		4.907		73.7	70	130			

Sample ID: **2110A71-002AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **TP6-4** Batch ID: **63579** RunNo: **82425**
Prep Date: **10/26/2021** Analysis Date: **10/28/2021** SeqNo: **2924381** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.7	48.59	0	93.2	39.3	155	13.2	23.4	
Surr: DNOP	4.3		4.859		89.4	70	130	0	0	

Sample ID: **LCS-63613** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **63613** RunNo: **82434**
Prep Date: **10/27/2021** Analysis Date: **10/28/2021** SeqNo: **2924945** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	101	68.9	135			
Surr: DNOP	5.4		5.000		108	70	130			

Sample ID: **MB-63613** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **63613** RunNo: **82434**
Prep Date: **10/27/2021** Analysis Date: **10/28/2021** SeqNo: **2924947** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2110A71**
01-Nov-21

Client: GHD Midland
Project: Federal 13Q Battery

Sample ID: **mb-63554**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **63554**	RunNo: **82372**							
Prep Date: **10/26/2021**	Analysis Date: **10/28/2021**	SeqNo: **2923029**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	70	130			

Sample ID: **lcs-63554**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **63554**	RunNo: **82372**							
Prep Date: **10/26/2021**	Analysis Date: **10/27/2021**	SeqNo: **2923030**	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	1200		1000		117	70	130			

Sample ID: **2110a71-002ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **TP6-4**	Batch ID: **63554**	RunNo: **82372**							
Prep Date: **10/26/2021**	Analysis Date: **10/27/2021**	SeqNo: **2923032**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	35	5.0	24.90	0	139	61.3	114			S
Surr: BFB	1200		996.0		120	70	130			

Sample ID: **2110a71-002amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **TP6-4**	Batch ID: **63554**	RunNo: **82372**							
Prep Date: **10/26/2021**	Analysis Date: **10/27/2021**	SeqNo: **2923033**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	4.8	23.81	0	135	61.3	114	7.48	20	S
Surr: BFB	1100		952.4		119	70	130	0	0	

Sample ID: **mb-63569**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **63569**	RunNo: **82404**							
Prep Date: **10/26/2021**	Analysis Date: **10/28/2021**	SeqNo: **2924666**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		95.3	70	130			

Sample ID: **2110A71-022ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **TP15-S**	Batch ID: **63569**	RunNo: **82404**							
Prep Date: **10/26/2021**	Analysis Date: **10/28/2021**	SeqNo: **2924669**	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#: **2110A71**

01-Nov-21

Client: GHD Midland

Project: Federal 13Q Battery

Sample ID: **2110A71-022ams** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **TP15-S** Batch ID: **63569** RunNo: **82404**

Prep Date: **10/26/2021** Analysis Date: **10/28/2021** SeqNo: **2924669** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	23.81	0	102	61.3	114			
Surr: BFB	1100		952.4		119	70	130			

Sample ID: **2110A71-022amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**

Client ID: **TP15-S** Batch ID: **63569** RunNo: **82404**

Prep Date: **10/26/2021** Analysis Date: **10/28/2021** SeqNo: **2924671** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.73	0	106	61.3	114	7.32	20	
Surr: BFB	1100		989.1		112	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2110A71**

01-Nov-21

Client: GHD Midland

Project: Federal 13Q Battery

Sample ID: **mb-63554**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **63554**	RunNo: **82372**
Prep Date: **10/26/2021**	Analysis Date: **10/28/2021**	SeqNo: **2923079** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		86.9	70	130			

Sample ID: **LCS-63554**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **63554**	RunNo: **82372**
Prep Date: **10/26/2021**	Analysis Date: **10/27/2021**	SeqNo: **2923080** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.6	80	120			
Toluene	0.96	0.050	1.000	0	95.8	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.7	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.3	70	130			

Sample ID: **2110a71-003ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP6-8**	Batch ID: **63554**	RunNo: **82372**
Prep Date: **10/26/2021**	Analysis Date: **10/27/2021**	SeqNo: **2923083** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.12	0.9823	0	96.4	80	120			
Toluene	0.98	0.25	0.9823	0	99.4	80	120			
Ethylbenzene	0.96	0.25	0.9823	0	97.3	80	120			
Xylenes, Total	2.8	0.49	2.947	0	96.2	80	120			
Surr: 4-Bromofluorobenzene	4.2		4.912		86.0	70	130			

Sample ID: **2110a71-003amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **TP6-8**	Batch ID: **63554**	RunNo: **82372**
Prep Date: **10/26/2021**	Analysis Date: **10/27/2021**	SeqNo: **2923084** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.12	0.9524	0	110	80	120	9.73	20	
Toluene	1.1	0.24	0.9524	0	113	80	120	9.42	20	
Ethylbenzene	1.1	0.24	0.9524	0	110	80	120	9.63	20	
Xylenes, Total	3.1	0.48	2.857	0	110	80	120	10.3	20	
Surr: 4-Bromofluorobenzene	4.3		4.762		90.5	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2110A71**

01-Nov-21

Client: GHD Midland

Project: Federal 13Q Battery

Sample ID: **mb-63569** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **PBS** Batch ID: **63569** RunNo: **82404**

Prep Date: **10/26/2021** Analysis Date: **10/28/2021** SeqNo: **2924705** 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		104	70	130			

Sample ID: **2110A71-023ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **TP15-2** Batch ID: **63569** RunNo: **82404**

Prep Date: **10/26/2021** Analysis Date: **10/28/2021** SeqNo: **2924709** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	0.9843	0	100	80	120			
Toluene	1.0	0.049	0.9843	0	105	80	120			
Ethylbenzene	1.0	0.049	0.9843	0	106	80	120			
Xylenes, Total	3.1	0.098	2.953	0	106	80	120			
Surr: 4-Bromofluorobenzene	0.98		0.9843		99.9	70	130			

Sample ID: **2110A71-023amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **TP15-2** Batch ID: **63569** RunNo: **82404**

Prep Date: **10/26/2021** Analysis Date: **10/28/2021** SeqNo: **2924711** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.023	0.9381	0	101	80	120	4.42	20	
Toluene	0.99	0.047	0.9381	0	106	80	120	3.53	20	
Ethylbenzene	0.99	0.047	0.9381	0	106	80	120	5.00	20	
Xylenes, Total	3.0	0.094	2.814	0	108	80	120	3.00	20	
Surr: 4-Bromofluorobenzene	1.0		0.9381		108	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2110A71**
01-Nov-21

Client: GHD Midland
Project: Federal 13Q Battery

Sample ID: **mb-63551** SampType: **MBLK** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS** Batch ID: **63551** RunNo: **82380**
Prep Date: **10/25/2021** Analysis Date: **10/27/2021** SeqNo: **2922403** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.7	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.5	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		101	70	130			
Surr: Toluene-d8	0.53		0.5000		107	70	130			

Sample ID: **lcs-63551** SampType: **LCS4** TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC** Batch ID: **63551** RunNo: **82396**
Prep Date: **10/25/2021** Analysis Date: **10/27/2021** SeqNo: **2924153** 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	93.0	80	120			
Toluene	0.94	0.050	1.000	0	94.4	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.5	80	120			
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		98.9	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.9	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		102	70	130			
Surr: Toluene-d8	0.53		0.5000		106	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2110A71**

01-Nov-21

Client: GHD Midland

Project: Federal 13Q Battery

Sample ID: **lcs-63551**	SampType: **LCS**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **LCSS**	Batch ID: **63551**	RunNo: **82380**
Prep Date: **10/25/2021**	Analysis Date: **10/27/2021**	SeqNo: **2922442** 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	70	130			
Surr: BFB	500		500.0		101	70	130			

Sample ID: **mb-63551**	SampType: **MBLK**	TestCode: **EPA Method 8015D Mod: Gasoline Range**
Client ID: **PBS**	Batch ID: **63551**	RunNo: **82380**
Prep Date: **10/25/2021**	Analysis Date: **10/27/2021**	SeqNo: **2922445** 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	480		500.0		96.9	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

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: 2110A71 | RcptNo: 1

Received By: Cheyenne Cason 10/22/2021 7:15:00 AM

Completed By: Isaiah Ortiz 10/22/2021 9:03:45 AM

Reviewed By: TNM 10/22/21 10:38

Chain of Custody

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

Log In

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

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

Adjusted? _____

Checked by: JR 10/22/21 10/22/21 JR 10/22/21

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	0.3	Good	Not Present			
2	0.4	Good	Not Present			
3	1.9	Good	Not Present			

Chain-of-Custody Record

Client: GHD

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

Phone #: (505)377-4218

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

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

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

Project Name: Federal BQ Battery

Project #: 12563440

Project Manager:
Becky Haskell
Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 3

Cooler Temp(including CF): See Remarks

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

1 of 2

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2110471	~~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 Mtl 300
10/20/21	0740	S	TP6-2	Jar		001											
	0750		TP6-4			002											
	0755		TP6-8			003											
	0800		TP6-9			004											
	0825		TP7-S			005											
	0830		TP7-2			006											
	0835		TP8-S			007											
	0840		TP8-2			008											
	0845		TP9-S			009											
	0850		TP9-2			010											
	0905		TP10-S			011											
	0910		TP10-2			012											

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/21/21	0800	Zach Comino			10/21/21	800
10/21/21	1900					

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com: Along with Becky Haskell listed above. Direct Bill to EOG Chase Settle

6.0-0.2 = 0.3
6.0-0.2 = 0.4
2.1-0.0 = 2.1

Received by: CCM camm 10/22/21 0715

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

Chain-of-Custody Record

Client: GHD

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

Phone #: (505)377-4218

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

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

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

Project Name: Federal BQ Battery

Project #: 125634.40

Project Manager:
Becky Haskell
Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 3

Cooler Temp (including CF): See 1st page

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com 2 of 2

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. 2110471	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
10/20/21	0920	S	TP10-4	Jar		013	X	X									X
	0930		TP11-2			014											
	0945		TP11-4			015											
	1000		TP12-5			016											
	1005		TP12-2			017											
	1015		TP13-5			018											
	1020		TP13-2			019											
	1030		TP14-5			020											
	1035		TP14-2			021											
	1045		TP15-5			022											
	1050		TP15-2			023											

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
10/21/21	0800	Zach Comino			10/21/21	800
10/21/21	1900		Courier		10/22/21	0715

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com: Along with Becky Haskell listed above.
Direct Bill to EOG Chase Settle

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

January 13, 2022

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

RE: Federal BQ Battery OrderNo.: 2201192

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 14 sample(s) on 1/6/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2201192**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1-5
Project: Federal BQ Battery
Collection Date: 1/4/2022 8:50:00 AM
Lab ID: 2201192-001 **Matrix:** SOIL **Received Date:** 1/6/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	150	60		mg/Kg	20	1/8/2022 5:30:44 PM	64925
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	7900	190		mg/Kg	20	1/10/2022 2:16:02 PM	64893
Motor Oil Range Organics (MRO)	3900	970		mg/Kg	20	1/10/2022 2:16:02 PM	64893
Surr: DNOP	0	70-130	S	%Rec	20	1/10/2022 2:16:02 PM	64893
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	300	25		mg/Kg	5	1/10/2022 2:56:28 PM	64890
Surr: BFB	588	70-130	S	%Rec	5	1/10/2022 2:56:28 PM	64890
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	1/10/2022 2:56:28 PM	64890
Toluene	ND	0.25		mg/Kg	5	1/10/2022 2:56:28 PM	64890
Ethylbenzene	0.94	0.25		mg/Kg	5	1/10/2022 2:56:28 PM	64890
Xylenes, Total	ND	0.49		mg/Kg	5	1/10/2022 2:56:28 PM	64890
Surr: 4-Bromofluorobenzene	142	70-130	S	%Rec	5	1/10/2022 2:56:28 PM	64890

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

Qualifiers:

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

Analytical Report
Lab Order **2201192**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1-10
Project: Federal BQ Battery
Collection Date: 1/4/2022 9:00:00 AM
Lab ID: 2201192-002 **Matrix:** SOIL **Received Date:** 1/6/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	1/8/2022 5:43:09 PM	64925
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	1600	100		mg/Kg	10	1/11/2022 3:50:45 PM	64893
Motor Oil Range Organics (MRO)	740	500		mg/Kg	10	1/11/2022 3:50:45 PM	64893
Surr: DNOP	0	70-130	S	%Rec	10	1/11/2022 3:50:45 PM	64893
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	86	25		mg/Kg	5	1/10/2022 3:43:21 PM	64890
Surr: BFB	333	70-130	S	%Rec	5	1/10/2022 3:43:21 PM	64890
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	1/10/2022 3:43:21 PM	64890
Toluene	ND	0.25		mg/Kg	5	1/10/2022 3:43:21 PM	64890
Ethylbenzene	0.97	0.25		mg/Kg	5	1/10/2022 3:43:21 PM	64890
Xylenes, Total	ND	0.49		mg/Kg	5	1/10/2022 3:43:21 PM	64890
Surr: 4-Bromofluorobenzene	137	70-130	S	%Rec	5	1/10/2022 3:43:21 PM	64890

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

Qualifiers:

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

Analytical Report
Lab Order **2201192**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1-15
Project: Federal BQ Battery
Collection Date: 1/4/2022 9:05:00 AM
Lab ID: 2201192-003 **Matrix:** SOIL **Received Date:** 1/6/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	1/8/2022 5:55:33 PM	64925
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	970	95		mg/Kg	10	1/10/2022 2:37:29 PM	64893
Motor Oil Range Organics (MRO)	650	480		mg/Kg	10	1/10/2022 2:37:29 PM	64893
Surr: DNOP	0	70-130	S	%Rec	10	1/10/2022 2:37:29 PM	64893
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	1/7/2022 7:18:38 PM	64890
Surr: BFB	132	70-130	S	%Rec	5	1/7/2022 7:18:38 PM	64890
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	1/7/2022 7:18:38 PM	64890
Toluene	ND	0.25		mg/Kg	5	1/7/2022 7:18:38 PM	64890
Ethylbenzene	ND	0.25		mg/Kg	5	1/7/2022 7:18:38 PM	64890
Xylenes, Total	ND	0.50		mg/Kg	5	1/7/2022 7:18:38 PM	64890
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	5	1/7/2022 7:18:38 PM	64890

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

Qualifiers:

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

Analytical Report
Lab Order **2201192**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1-20
Project: Federal BQ Battery
Collection Date: 1/4/2022 9:10:00 AM
Lab ID: 2201192-004 **Matrix:** SOIL **Received Date:** 1/6/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	1/8/2022 6:32:46 PM	64925
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	120	9.6		mg/Kg	1	1/11/2022 10:12:12 AM	64901
Motor Oil Range Organics (MRO)	54	48		mg/Kg	1	1/11/2022 10:12:12 AM	64901
Surr: DNOP	85.5	70-130		%Rec	1	1/11/2022 10:12:12 AM	64901
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	1/7/2022 9:05:00 AM	64900
Surr: BFB	108	70-130		%Rec	5	1/7/2022 9:05:00 AM	64900
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.12		mg/Kg	5	1/7/2022 9:05:00 AM	64900
Toluene	ND	0.25		mg/Kg	5	1/7/2022 9:05:00 AM	64900
Ethylbenzene	ND	0.25		mg/Kg	5	1/7/2022 9:05:00 AM	64900
Xylenes, Total	ND	0.50		mg/Kg	5	1/7/2022 9:05:00 AM	64900
Surr: 4-Bromofluorobenzene	93.5	70-130		%Rec	5	1/7/2022 9:05:00 AM	64900

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

Qualifiers:

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

Analytical Report
Lab Order **2201192**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1-25
Project: Federal BQ Battery
Collection Date: 1/4/2022 9:15:00 AM
Lab ID: 2201192-005 **Matrix:** SOIL **Received Date:** 1/6/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	65	60		mg/Kg	20	1/8/2022 6:45:10 PM	64925
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	58	9.7		mg/Kg	1	1/11/2022 10:22:38 AM	64901
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/11/2022 10:22:38 AM	64901
Surr: DNOP	84.8	70-130		%Rec	1	1/11/2022 10:22:38 AM	64901
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	1/7/2022 10:03:00 AM	64900
Surr: BFB	103	70-130		%Rec	5	1/7/2022 10:03:00 AM	64900
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.12		mg/Kg	5	1/7/2022 10:03:00 AM	64900
Toluene	ND	0.24		mg/Kg	5	1/7/2022 10:03:00 AM	64900
Ethylbenzene	ND	0.24		mg/Kg	5	1/7/2022 10:03:00 AM	64900
Xylenes, Total	ND	0.49		mg/Kg	5	1/7/2022 10:03:00 AM	64900
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	5	1/7/2022 10:03:00 AM	64900

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

Qualifiers:

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

Analytical Report
Lab Order **2201192**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1-30
Project: Federal BQ Battery
Collection Date: 1/4/2022 9:20:00 AM
Lab ID: 2201192-006 **Matrix:** SOIL **Received Date:** 1/6/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	77	60		mg/Kg	20	1/8/2022 6:57:34 PM	64925
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	75	9.6		mg/Kg	1	1/11/2022 10:33:04 AM	64901
Motor Oil Range Organics (MRO)	52	48		mg/Kg	1	1/11/2022 10:33:04 AM	64901
Surr: DNOP	81.7	70-130		%Rec	1	1/11/2022 10:33:04 AM	64901
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	1/7/2022 11:02:00 AM	64900
Surr: BFB	104	70-130		%Rec	5	1/7/2022 11:02:00 AM	64900
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.12		mg/Kg	5	1/7/2022 11:02:00 AM	64900
Toluene	ND	0.24		mg/Kg	5	1/7/2022 11:02:00 AM	64900
Ethylbenzene	ND	0.24		mg/Kg	5	1/7/2022 11:02:00 AM	64900
Xylenes, Total	ND	0.48		mg/Kg	5	1/7/2022 11:02:00 AM	64900
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	5	1/7/2022 11:02:00 AM	64900

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

Qualifiers:

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

Analytical Report
Lab Order **2201192**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1-35
Project: Federal BQ Battery
Collection Date: 1/4/2022 9:25:00 AM
Lab ID: 2201192-007 **Matrix:** SOIL **Received Date:** 1/6/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	1/8/2022 7:09:59 PM	64925
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	72	10		mg/Kg	1	1/11/2022 12:30:57 PM	64901
Motor Oil Range Organics (MRO)	63	50		mg/Kg	1	1/11/2022 12:30:57 PM	64901
Surr: DNOP	88.6	70-130		%Rec	1	1/11/2022 12:30:57 PM	64901
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	1/7/2022 11:22:00 AM	64900
Surr: BFB	105	70-130		%Rec	5	1/7/2022 11:22:00 AM	64900
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.12		mg/Kg	5	1/7/2022 11:22:00 AM	64900
Toluene	ND	0.25		mg/Kg	5	1/7/2022 11:22:00 AM	64900
Ethylbenzene	ND	0.25		mg/Kg	5	1/7/2022 11:22:00 AM	64900
Xylenes, Total	ND	0.49		mg/Kg	5	1/7/2022 11:22:00 AM	64900
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	5	1/7/2022 11:22:00 AM	64900

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

Qualifiers:

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

Analytical Report
Lab Order **2201192**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1-40
Project: Federal BQ Battery
Collection Date: 1/4/2022 9:30:00 AM
Lab ID: 2201192-008 **Matrix:** SOIL **Received Date:** 1/6/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	1/8/2022 7:22:23 PM	64925
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	49	9.8		mg/Kg	1	1/11/2022 12:41:30 PM	64901
Motor Oil Range Organics (MRO)	54	49		mg/Kg	1	1/11/2022 12:41:30 PM	64901
Surr: DNOP	127	70-130		%Rec	1	1/11/2022 12:41:30 PM	64901
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	1/7/2022 11:42:00 AM	64900
Surr: BFB	102	70-130		%Rec	5	1/7/2022 11:42:00 AM	64900
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.12		mg/Kg	5	1/7/2022 11:42:00 AM	64900
Toluene	ND	0.25		mg/Kg	5	1/7/2022 11:42:00 AM	64900
Ethylbenzene	ND	0.25		mg/Kg	5	1/7/2022 11:42:00 AM	64900
Xylenes, Total	ND	0.50		mg/Kg	5	1/7/2022 11:42:00 AM	64900
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	5	1/7/2022 11:42:00 AM	64900

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

Qualifiers:

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

Analytical Report
Lab Order **2201192**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1-45
Project: Federal BQ Battery
Collection Date: 1/4/2022 9:35:00 AM
Lab ID: 2201192-009 **Matrix:** SOIL **Received Date:** 1/6/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	1/8/2022 7:34:48 PM	64925
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	50	9.8		mg/Kg	1	1/11/2022 12:52:03 PM	64901
Motor Oil Range Organics (MRO)	51	49		mg/Kg	1	1/11/2022 12:52:03 PM	64901
Surr: DNOP	89.4	70-130		%Rec	1	1/11/2022 12:52:03 PM	64901
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	1/7/2022 12:01:00 PM	64900
Surr: BFB	98.7	70-130		%Rec	5	1/7/2022 12:01:00 PM	64900
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.12		mg/Kg	5	1/7/2022 12:01:00 PM	64900
Toluene	ND	0.24		mg/Kg	5	1/7/2022 12:01:00 PM	64900
Ethylbenzene	ND	0.24		mg/Kg	5	1/7/2022 12:01:00 PM	64900
Xylenes, Total	ND	0.49		mg/Kg	5	1/7/2022 12:01:00 PM	64900
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	5	1/7/2022 12:01:00 PM	64900

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

Qualifiers:

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

Analytical Report
Lab Order **2201192**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1-50
Project: Federal BQ Battery
Collection Date: 1/4/2022 9:40:00 AM
Lab ID: 2201192-010 **Matrix:** SOIL **Received Date:** 1/6/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	490	60		mg/Kg	20	1/10/2022 1:32:25 PM	64937
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	34	9.9		mg/Kg	1	1/11/2022 1:02:37 PM	64901
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/11/2022 1:02:37 PM	64901
Surr: DNOP	85.6	70-130		%Rec	1	1/11/2022 1:02:37 PM	64901
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	1/7/2022 12:21:00 PM	64900
Surr: BFB	114	70-130		%Rec	5	1/7/2022 12:21:00 PM	64900
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.12		mg/Kg	5	1/7/2022 12:21:00 PM	64900
Toluene	ND	0.25		mg/Kg	5	1/7/2022 12:21:00 PM	64900
Ethylbenzene	ND	0.25		mg/Kg	5	1/7/2022 12:21:00 PM	64900
Xylenes, Total	ND	0.49		mg/Kg	5	1/7/2022 12:21:00 PM	64900
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	5	1/7/2022 12:21:00 PM	64900

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

Qualifiers:

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

Analytical Report
Lab Order **2201192**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1-60
Project: Federal BQ Battery
Collection Date: 1/4/2022 9:45:00 AM
Lab ID: 2201192-011 **Matrix:** SOIL **Received Date:** 1/6/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	340	60		mg/Kg	20	1/10/2022 1:44:45 PM	64937
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	17	9.9		mg/Kg	1	1/11/2022 1:13:13 PM	64901
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/11/2022 1:13:13 PM	64901
Surr: DNOP	82.2	70-130		%Rec	1	1/11/2022 1:13:13 PM	64901
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/7/2022 12:41:00 PM	64900
Surr: BFB	92.8	70-130		%Rec	1	1/7/2022 12:41:00 PM	64900
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	1/7/2022 12:41:00 PM	64900
Toluene	ND	0.050		mg/Kg	1	1/7/2022 12:41:00 PM	64900
Ethylbenzene	ND	0.050		mg/Kg	1	1/7/2022 12:41:00 PM	64900
Xylenes, Total	ND	0.10		mg/Kg	1	1/7/2022 12:41:00 PM	64900
Surr: 4-Bromofluorobenzene	85.4	70-130		%Rec	1	1/7/2022 12:41:00 PM	64900

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

Qualifiers:

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

Analytical Report
Lab Order **2201192**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1-70
Project: Federal BQ Battery
Collection Date: 1/4/2022 10:00:00 AM
Lab ID: 2201192-012 **Matrix:** SOIL **Received Date:** 1/6/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1400	59		mg/Kg	20	1/10/2022 1:57:05 PM	64937
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	14	9.8		mg/Kg	1	1/11/2022 1:23:49 PM	64901
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/11/2022 1:23:49 PM	64901
Surr: DNOP	115	70-130		%Rec	1	1/11/2022 1:23:49 PM	64901
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/7/2022 1:00:00 PM	64900
Surr: BFB	90.3	70-130		%Rec	1	1/7/2022 1:00:00 PM	64900
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	1/7/2022 1:00:00 PM	64900
Toluene	ND	0.049		mg/Kg	1	1/7/2022 1:00:00 PM	64900
Ethylbenzene	ND	0.049		mg/Kg	1	1/7/2022 1:00:00 PM	64900
Xylenes, Total	ND	0.098		mg/Kg	1	1/7/2022 1:00:00 PM	64900
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	1	1/7/2022 1:00:00 PM	64900

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

Qualifiers:

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

Analytical Report
Lab Order **2201192**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1-75
Project: Federal BQ Battery
Collection Date: 1/4/2022 10:05:00 AM
Lab ID: 2201192-013 **Matrix:** SOIL **Received Date:** 1/6/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	690	60		mg/Kg	20	1/10/2022 2:09:25 PM	64937
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	170	9.6		mg/Kg	1	1/11/2022 1:34:25 PM	64901
Motor Oil Range Organics (MRO)	130	48		mg/Kg	1	1/11/2022 1:34:25 PM	64901
Surr: DNOP	85.9	70-130		%Rec	1	1/11/2022 1:34:25 PM	64901
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/7/2022 1:20:00 PM	64900
Surr: BFB	102	70-130		%Rec	1	1/7/2022 1:20:00 PM	64900
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	1/7/2022 1:20:00 PM	64900
Toluene	ND	0.050		mg/Kg	1	1/7/2022 1:20:00 PM	64900
Ethylbenzene	ND	0.050		mg/Kg	1	1/7/2022 1:20:00 PM	64900
Xylenes, Total	ND	0.099		mg/Kg	1	1/7/2022 1:20:00 PM	64900
Surr: 4-Bromofluorobenzene	88.1	70-130		%Rec	1	1/7/2022 1:20:00 PM	64900

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

Qualifiers:

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

Analytical Report
Lab Order **2201192**
Date Reported: **1/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SB-1-80
Project: Federal BQ Battery
Collection Date: 1/4/2022 10:15:00 AM
Lab ID: 2201192-014 **Matrix:** SOIL **Received Date:** 1/6/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	150	60		mg/Kg	20	1/10/2022 2:21:46 PM	64937
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/11/2022 1:45:01 PM	64901
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/11/2022 1:45:01 PM	64901
Surr: DNOP	80.4	70-130		%Rec	1	1/11/2022 1:45:01 PM	64901
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **mb**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/7/2022 2:19:00 PM	64900
Surr: BFB	87.2	70-130		%Rec	1	1/7/2022 2:19:00 PM	64900
EPA METHOD 8021B: VOLATILES						Analyst: **mb**	
Benzene	ND	0.025		mg/Kg	1	1/7/2022 2:19:00 PM	64900
Toluene	ND	0.049		mg/Kg	1	1/7/2022 2:19:00 PM	64900
Ethylbenzene	ND	0.049		mg/Kg	1	1/7/2022 2:19:00 PM	64900
Xylenes, Total	ND	0.098		mg/Kg	1	1/7/2022 2:19:00 PM	64900
Surr: 4-Bromofluorobenzene	81.9	70-130		%Rec	1	1/7/2022 2:19:00 PM	64900

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2201192**

13-Jan-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **MB-64925**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **64925**	RunNo: **85042**
Prep Date: **1/8/2022**	Analysis Date: **1/8/2022**	SeqNo: **2992022** Units: **mg/Kg**

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

Sample ID: **LCS-64925**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **64925**	RunNo: **85042**
Prep Date: **1/8/2022**	Analysis Date: **1/8/2022**	SeqNo: **2992023** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.7	90	110			

Sample ID: **MB-64937**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **64937**	RunNo: **85054**
Prep Date: **1/10/2022**	Analysis Date: **1/10/2022**	SeqNo: **2992524** Units: **mg/Kg**

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

Sample ID: **LCS-64937**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **64937**	RunNo: **85054**
Prep Date: **1/10/2022**	Analysis Date: **1/10/2022**	SeqNo: **2992525** Units: **mg/Kg**

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201192**
13-Jan-22

Client: GHD Midland
Project: Federal BQ Battery

Sample ID: **LCS-64893** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **64893** RunNo: **85041**
Prep Date: **1/6/2022** Analysis Date: **1/10/2022** SeqNo: **2992199** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.8	68.9	135			
Surr: DNOP	4.0		5.000		80.9	70	130			

Sample ID: **MB-64893** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **64893** RunNo: **85041**
Prep Date: **1/6/2022** Analysis Date: **1/10/2022** SeqNo: **2992200** 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	8.6		10.00		85.6	70	130			

Sample ID: **LCS-64901** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **64901** RunNo: **85066**
Prep Date: **1/7/2022** Analysis Date: **1/11/2022** SeqNo: **2992973** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.5	68.9	135			
Surr: DNOP	4.3		5.000		85.2	70	130			

Sample ID: **MB-64901** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **64901** RunNo: **85066**
Prep Date: **1/7/2022** Analysis Date: **1/11/2022** SeqNo: **2992975** 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	9.0		10.00		89.7	70	130			

Sample ID: **2201192-004AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SB-1-20** Batch ID: **64901** RunNo: **85066**
Prep Date: **1/7/2022** Analysis Date: **1/11/2022** SeqNo: **2993814** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	100	9.8	49.07	117.2	-26.4	39.3	155			S
Surr: DNOP	3.9		4.907		79.1	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201192**
13-Jan-22

Client: GHD Midland
Project: Federal BQ Battery

Sample ID: **2201192-004AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SB-1-20** Batch ID: **64901** RunNo: **85066**
Prep Date: **1/7/2022** Analysis Date: **1/11/2022** SeqNo: **2993815** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	160	9.6	47.98	117.2	82.8	39.3	155	40.4	23.4	R
Surr: DNOP	3.7		4.798		77.2	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201192**
13-Jan-22

Client: GHD Midland
Project: Federal BQ Battery

Sample ID: **mb-64890**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **64890**	RunNo: **85032**
Prep Date: **1/6/2022**	Analysis Date: **1/7/2022**	SeqNo: **2991619** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.4	70	130			

Sample ID: **lcs-64890**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **64890**	RunNo: **85032**
Prep Date: **1/6/2022**	Analysis Date: **1/7/2022**	SeqNo: **2991620** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.8	78.6	131			
Surr: BFB	1000		1000		102	70	130			

Sample ID: **mb-64900**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **64900**	RunNo: **85031**
Prep Date: **1/6/2022**	Analysis Date: **1/7/2022**	SeqNo: **2991678** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		89.8	70	130			

Sample ID: **lcs-64900**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **64900**	RunNo: **85031**
Prep Date: **1/6/2022**	Analysis Date: **1/7/2022**	SeqNo: **2991680** 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: **2201192-004ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SB-1-20**	Batch ID: **64900**	RunNo: **85031**
Prep Date: **1/6/2022**	Analysis Date: **1/7/2022**	SeqNo: **2991682** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	33	25	24.56	0	136	70	130			S
Surr: BFB	5400		4912		109	70	130			

Sample ID: **2201192-004amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SB-1-20**	Batch ID: **64900**	RunNo: **85031**
Prep Date: **1/6/2022**	Analysis Date: **1/7/2022**	SeqNo: **2991684** Units: **mg/Kg**

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

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201192**
13-Jan-22

Client: GHD Midland
Project: Federal BQ Battery

Sample ID: **2201192-004amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SB-1-20** Batch ID: **64900** RunNo: **85031**
Prep Date: **1/6/2022** Analysis Date: **1/7/2022** SeqNo: **2991684** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	25	24.53	0	121	70	130	12.2	20	
Surr: BFB	5200		4907		106	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: **2201192**
13-Jan-22

Client: GHD Midland
Project: Federal BQ Battery

Sample ID: **lcs-64900** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **64900** RunNo: **85031**
Prep Date: **1/6/2022** Analysis Date: **1/7/2022** SeqNo: **2991612** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.2	80	120			
Toluene	0.85	0.050	1.000	0	84.7	80	120			
Ethylbenzene	0.84	0.050	1.000	0	84.4	80	120			
Xylenes, Total	2.4	0.10	3.000	0	81.7	80	120			
Surr: 4-Bromofluorobenzene	0.82		1.000		82.2	70	130			

Sample ID: **mb-64890** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **64890** RunNo: **85032**
Prep Date: **1/6/2022** Analysis Date: **1/7/2022** SeqNo: **2991646** 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		105	70	130			

Sample ID: **LCS-64890** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **64890** RunNo: **85032**
Prep Date: **1/6/2022** Analysis Date: **1/7/2022** SeqNo: **2991647** 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	0.94	0.050	1.000	0	93.9	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.2	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Sample ID: **mb-64900** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **64900** RunNo: **85031**
Prep Date: **1/6/2022** Analysis Date: **1/7/2022** SeqNo: **2991712** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		85.2	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2201192**

13-Jan-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **2201192-005ams** SampType: **MS** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **SB-1-25** Batch ID: **64900** RunNo: **85031**

Prep Date: **1/6/2022** Analysis Date: **1/7/2022** SeqNo: **2991714** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.12	0.9930	0	98.4	80	120			
Toluene	0.94	0.25	0.9930	0	94.2	80	120			
Ethylbenzene	1.0	0.25	0.9930	0	106	80	120			
Xylenes, Total	3.0	0.50	2.979	0	101	80	120			
Surr: 4-Bromofluorobenzene	4.6		4.965		92.9	70	130			

Sample ID: **2201192-005amsd** SampType: **MSD** TestCode: **EPA Method 8021B: Volatiles**

Client ID: **SB-1-25** Batch ID: **64900** RunNo: **85031**

Prep Date: **1/6/2022** Analysis Date: **1/7/2022** SeqNo: **2991716** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.12	0.9862	0	109	80	120	9.37	20	
Toluene	1.1	0.25	0.9862	0	111	80	120	16.0	20	
Ethylbenzene	1.2	0.25	0.9862	0	117	80	120	9.71	20	
Xylenes, Total	3.3	0.49	2.959	0	112	80	120	9.19	20	
Surr: 4-Bromofluorobenzene	4.7		4.931		94.3	70	130	0	0	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: GHD Midland | Work Order Number: 2201192 | RcptNo: 1

Received By: **Tracy Casarrubias** 1/6/2022 8:00:00 AM

Completed By: **Tracy Casarrubias** 1/6/2022 8:18:05 AM

Reviewed By: KPG 1/06/22

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes ☐	No ☐	NA ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# 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: JM 1/6/22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.8	Good	Yes			

Chain-of-Custody Record

1 of 2

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: GHD

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

Phone #: (505)377-4218

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

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☒ Rush 5-Day

Project Name: Federal BQ Battery

Project #: 12563440

Project Manager: Becky Haskell, Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 5.0-0.2=4.8

HEAL No. 2201192

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride Method 300
01/04/22	0850	S	SB-1-5	Jar		001	X	X									X
	0900		SB-1-10			002											
	0905		SB-1-15			003											
	0910		SB-1-20			004											
	0915		SB-1-25			005											
	0920		SB-1-30			006											
	0925		SB-1-35			007											
	0930		SB-1-40			008											
	0935		SB-1-45			009											
	0940		SB-1-50			010											
	0945		SB-1-60			011											
	1000		SB-1-70			012											

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
01/05/22	0800	Zach Comino			1/5/22	800
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
1/5/22	1900			carrier	1/6/22	8:00

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com: Along with Becky Haskell listed above.
Direct Bill to EOG Chase Settle

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

Chain-of-Custody Record

2 of 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-dy

Project Name: Federal BQ Battery

Project #: 12563440

Project Manager:
Becky Haskell
Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 5.0-0.2=4.8

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2201192	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 300.0						
010422	1005	S	SB-1-7.5	Jar 1		013	X	X									X						
↓	1015	↓	SB-1-8.0	↓		014	X	X									X						

Analysis Request

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com: Along with Becky Haskell listed above.
Direct Bill to EOG Chase Settle

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
1/5/22	0800	Zach Comino			1/5/22	800
1/5/22	1900			courier	1/6/22	8:00

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

May 13, 2022

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

RE: Federal BQ Battery OrderNo.: 2205062

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 12 sample(s) on 5/3/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2205062**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-1
Project: Federal BQ Battery
Collection Date: 4/29/2022 8:00:00 AM
Lab ID: 2205062-001 **Matrix:** SOIL **Received Date:** 5/3/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	74	60		mg/Kg	20	5/9/2022 11:07:28 PM	67328
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	12	9.9		mg/Kg	1	5/7/2022 5:33:07 AM	67262
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/7/2022 5:33:07 AM	67262
Surr: DNOP	94.7	51.1-141		%Rec	1	5/7/2022 5:33:07 AM	67262
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/5/2022 9:09:46 PM	67243
Surr: BFB	102	37.7-212		%Rec	1	5/5/2022 9:09:46 PM	67243
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	5/5/2022 9:09:46 PM	67243
Toluene	ND	0.049		mg/Kg	1	5/5/2022 9:09:46 PM	67243
Ethylbenzene	ND	0.049		mg/Kg	1	5/5/2022 9:09:46 PM	67243
Xylenes, Total	ND	0.098		mg/Kg	1	5/5/2022 9:09:46 PM	67243
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	5/5/2022 9:09:46 PM	67243

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

Qualifiers:

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

Analytical Report
Lab Order **2205062**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-2
Project: Federal BQ Battery
Collection Date: 4/29/2022 8:05:00 AM
Lab ID: 2205062-002 **Matrix:** SOIL **Received Date:** 5/3/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	2300	150		mg/Kg	50	5/10/2022 1:08:59 PM	67328
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	58	9.2		mg/Kg	1	5/9/2022 2:06:58 PM	67262
Motor Oil Range Organics (MRO)	120	46		mg/Kg	1	5/9/2022 2:06:58 PM	67262
Surr: DNOP	99.0	51.1-141		%Rec	1	5/9/2022 2:06:58 PM	67262
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/5/2022 10:43:10 PM	67243
Surr: BFB	97.4	37.7-212		%Rec	1	5/5/2022 10:43:10 PM	67243
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	5/5/2022 10:43:10 PM	67243
Toluene	ND	0.049		mg/Kg	1	5/5/2022 10:43:10 PM	67243
Ethylbenzene	ND	0.049		mg/Kg	1	5/5/2022 10:43:10 PM	67243
Xylenes, Total	ND	0.097		mg/Kg	1	5/5/2022 10:43:10 PM	67243
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	1	5/5/2022 10:43:10 PM	67243

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

Qualifiers:

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

Analytical Report
Lab Order **2205062**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-3
Project: Federal BQ Battery
Collection Date: 4/29/2022 8:10:00 AM
Lab ID: 2205062-003 **Matrix:** SOIL **Received Date:** 5/3/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1100	60		mg/Kg	20	5/9/2022 9:03:25 PM	67328
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	28	9.4		mg/Kg	1	5/10/2022 10:00:53 AM	67262
Motor Oil Range Organics (MRO)	66	47		mg/Kg	1	5/10/2022 10:00:53 AM	67262
Surr: DNOP	85.0	51.1-141		%Rec	1	5/10/2022 10:00:53 AM	67262
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/5/2022 11:06:35 PM	67243
Surr: BFB	98.4	37.7-212		%Rec	1	5/5/2022 11:06:35 PM	67243
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	5/5/2022 11:06:35 PM	67243
Toluene	ND	0.050		mg/Kg	1	5/5/2022 11:06:35 PM	67243
Ethylbenzene	ND	0.050		mg/Kg	1	5/5/2022 11:06:35 PM	67243
Xylenes, Total	ND	0.10		mg/Kg	1	5/5/2022 11:06:35 PM	67243
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	5/5/2022 11:06:35 PM	67243

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

Qualifiers:

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

Analytical Report
Lab Order **2205062**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-4
Project: Federal BQ Battery
Collection Date: 4/29/2022 8:15:00 AM
Lab ID: 2205062-004 **Matrix:** SOIL **Received Date:** 5/3/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	160	60		mg/Kg	20	5/9/2022 9:15:49 PM	67328
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	130	45		mg/Kg	5	5/10/2022 10:24:36 AM	67262
Motor Oil Range Organics (MRO)	330	230		mg/Kg	5	5/10/2022 10:24:36 AM	67262
Surr: DNOP	94.4	51.1-141		%Rec	5	5/10/2022 10:24:36 AM	67262
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/5/2022 11:30:20 PM	67243
Surr: BFB	98.2	37.7-212		%Rec	1	5/5/2022 11:30:20 PM	67243
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	5/5/2022 11:30:20 PM	67243
Toluene	ND	0.050		mg/Kg	1	5/5/2022 11:30:20 PM	67243
Ethylbenzene	ND	0.050		mg/Kg	1	5/5/2022 11:30:20 PM	67243
Xylenes, Total	ND	0.099		mg/Kg	1	5/5/2022 11:30:20 PM	67243
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	5/5/2022 11:30:20 PM	67243

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

Qualifiers:

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

Analytical Report
Lab Order **2205062**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-5
Project: Federal BQ Battery
Collection Date: 4/29/2022 9:00:00 AM
Lab ID: 2205062-005 **Matrix:** SOIL **Received Date:** 5/3/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1700	60		mg/Kg	20	5/9/2022 9:28:13 PM	67328
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/7/2022 7:55:25 AM	67262
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/7/2022 7:55:25 AM	67262
Surr: DNOP	90.7	51.1-141		%Rec	1	5/7/2022 7:55:25 AM	67262
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/5/2022 11:53:55 PM	67243
Surr: BFB	96.8	37.7-212		%Rec	1	5/5/2022 11:53:55 PM	67243
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	5/5/2022 11:53:55 PM	67243
Toluene	ND	0.050		mg/Kg	1	5/5/2022 11:53:55 PM	67243
Ethylbenzene	ND	0.050		mg/Kg	1	5/5/2022 11:53:55 PM	67243
Xylenes, Total	ND	0.10		mg/Kg	1	5/5/2022 11:53:55 PM	67243
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	5/5/2022 11:53:55 PM	67243

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

Qualifiers:

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

Analytical Report
Lab Order **2205062**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-6
Project: Federal BQ Battery
Collection Date: 4/29/2022 9:05:00 AM
Lab ID: 2205062-006 **Matrix:** SOIL **Received Date:** 5/3/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	500	60		mg/Kg	20	5/9/2022 9:40:38 PM	67328
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	10	10		mg/Kg	1	5/7/2022 8:19:16 AM	67262
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/7/2022 8:19:16 AM	67262
Surr: DNOP	101	51.1-141		%Rec	1	5/7/2022 8:19:16 AM	67262
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/6/2022 12:17:37 AM	67243
Surr: BFB	98.8	37.7-212		%Rec	1	5/6/2022 12:17:37 AM	67243
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	5/6/2022 12:17:37 AM	67243
Toluene	ND	0.050		mg/Kg	1	5/6/2022 12:17:37 AM	67243
Ethylbenzene	ND	0.050		mg/Kg	1	5/6/2022 12:17:37 AM	67243
Xylenes, Total	ND	0.10		mg/Kg	1	5/6/2022 12:17:37 AM	67243
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	5/6/2022 12:17:37 AM	67243

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

Qualifiers:

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

Analytical Report
Lab Order **2205062**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-7
Project: Federal BQ Battery
Collection Date: 4/29/2022 9:10:00 AM
Lab ID: 2205062-007 **Matrix:** SOIL **Received Date:** 5/3/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1100	60		mg/Kg	20	5/9/2022 9:53:02 PM	67328
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	77	9.2		mg/Kg	1	5/7/2022 9:06:46 AM	67262
Motor Oil Range Organics (MRO)	54	46		mg/Kg	1	5/7/2022 9:06:46 AM	67262
Surr: DNOP	94.1	51.1-141		%Rec	1	5/7/2022 9:06:46 AM	67262
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/6/2022 12:41:10 AM	67243
Surr: BFB	94.1	37.7-212		%Rec	1	5/6/2022 12:41:10 AM	67243
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	5/6/2022 12:41:10 AM	67243
Toluene	ND	0.049		mg/Kg	1	5/6/2022 12:41:10 AM	67243
Ethylbenzene	ND	0.049		mg/Kg	1	5/6/2022 12:41:10 AM	67243
Xylenes, Total	ND	0.099		mg/Kg	1	5/6/2022 12:41:10 AM	67243
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	5/6/2022 12:41:10 AM	67243

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

Qualifiers:

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

Analytical Report
Lab Order **2205062**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-8
Project: Federal BQ Battery
Collection Date: 4/29/2022 9:15:00 AM
Lab ID: 2205062-008 **Matrix:** SOIL **Received Date:** 5/3/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	3500	150		mg/Kg	50	5/10/2022 1:21:23 PM	67328
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	130	9.6		mg/Kg	1	5/9/2022 3:42:28 PM	67262
Motor Oil Range Organics (MRO)	120	48		mg/Kg	1	5/9/2022 3:42:28 PM	67262
Surr: DNOP	93.2	51.1-141		%Rec	1	5/9/2022 3:42:28 PM	67262
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/6/2022 1:04:47 AM	67243
Surr: BFB	96.2	37.7-212		%Rec	1	5/6/2022 1:04:47 AM	67243
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	5/6/2022 1:04:47 AM	67243
Toluene	ND	0.049		mg/Kg	1	5/6/2022 1:04:47 AM	67243
Ethylbenzene	ND	0.049		mg/Kg	1	5/6/2022 1:04:47 AM	67243
Xylenes, Total	ND	0.099		mg/Kg	1	5/6/2022 1:04:47 AM	67243
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	5/6/2022 1:04:47 AM	67243

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

Qualifiers:

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

Analytical Report
Lab Order **2205062**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-9
Project: Federal BQ Battery
Collection Date: 4/29/2022 10:00:00 AM
Lab ID: 2205062-009 **Matrix:** SOIL **Received Date:** 5/3/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	360	60		mg/Kg	20	5/9/2022 4:42:52 PM	67339
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	11	9.6		mg/Kg	1	5/9/2022 4:53:57 PM	67262
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/9/2022 4:53:57 PM	67262
Surr: DNOP	96.4	51.1-141		%Rec	1	5/9/2022 4:53:57 PM	67262
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/6/2022 1:28:22 AM	67243
Surr: BFB	102	37.7-212		%Rec	1	5/6/2022 1:28:22 AM	67243
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	5/6/2022 1:28:22 AM	67243
Toluene	ND	0.050		mg/Kg	1	5/6/2022 1:28:22 AM	67243
Ethylbenzene	ND	0.050		mg/Kg	1	5/6/2022 1:28:22 AM	67243
Xylenes, Total	ND	0.099		mg/Kg	1	5/6/2022 1:28:22 AM	67243
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	5/6/2022 1:28:22 AM	67243

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

Qualifiers:

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

Analytical Report
Lab Order **2205062**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-10
Project: Federal BQ Battery
Collection Date: 4/29/2022 10:05:00 AM
Lab ID: 2205062-010 **Matrix:** SOIL **Received Date:** 5/3/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **CAS**	
Chloride	3100	150		mg/Kg	50	5/10/2022 1:33:47 PM	67339
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	1000	96		mg/Kg	10	5/9/2022 12:55:24 PM	67262
Motor Oil Range Organics (MRO)	750	480		mg/Kg	10	5/9/2022 12:55:24 PM	67262
Surr: DNOP	0	51.1-141	S	%Rec	10	5/9/2022 12:55:24 PM	67262
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	5/6/2022 1:51:56 AM	67243
Surr: BFB	99.4	37.7-212		%Rec	5	5/6/2022 1:51:56 AM	67243
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	5/6/2022 1:51:56 AM	67243
Toluene	ND	0.25		mg/Kg	5	5/6/2022 1:51:56 AM	67243
Ethylbenzene	ND	0.25		mg/Kg	5	5/6/2022 1:51:56 AM	67243
Xylenes, Total	ND	0.50		mg/Kg	5	5/6/2022 1:51:56 AM	67243
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	5	5/6/2022 1:51:56 AM	67243

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

Qualifiers:

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

Analytical Report
Lab Order **2205062**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SW-1
Project: Federal BQ Battery
Collection Date: 4/29/2022 10:10:00 AM
Lab ID: 2205062-011 **Matrix:** SOIL **Received Date:** 5/3/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	110	60		mg/Kg	20	5/9/2022 4:55:16 PM	67339
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	110	9.2		mg/Kg	1	5/9/2022 2:54:44 PM	67262
Motor Oil Range Organics (MRO)	280	46		mg/Kg	1	5/9/2022 2:54:44 PM	67262
Surr: DNOP	100	51.1-141		%Rec	1	5/9/2022 2:54:44 PM	67262
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/6/2022 2:15:29 AM	67243
Surr: BFB	99.2	37.7-212		%Rec	1	5/6/2022 2:15:29 AM	67243
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	5/6/2022 2:15:29 AM	67243
Toluene	ND	0.049		mg/Kg	1	5/6/2022 2:15:29 AM	67243
Ethylbenzene	ND	0.049		mg/Kg	1	5/6/2022 2:15:29 AM	67243
Xylenes, Total	ND	0.098		mg/Kg	1	5/6/2022 2:15:29 AM	67243
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	5/6/2022 2:15:29 AM	67243

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

Qualifiers:

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

Analytical Report
Lab Order **2205062**
Date Reported: **5/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SW-2
Project: Federal BQ Battery
Collection Date: 4/29/2022 10:15:00 AM
Lab ID: 2205062-012 **Matrix:** SOIL **Received Date:** 5/3/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	5/9/2022 3:40:50 PM	67339
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	5/7/2022 11:05:49 AM	67262
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/7/2022 11:05:49 AM	67262
Surr: DNOP	94.2	51.1-141		%Rec	1	5/7/2022 11:05:49 AM	67262
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/6/2022 3:49:46 AM	67243
Surr: BFB	101	37.7-212		%Rec	1	5/6/2022 3:49:46 AM	67243
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	5/6/2022 3:49:46 AM	67243
Toluene	ND	0.049		mg/Kg	1	5/6/2022 3:49:46 AM	67243
Ethylbenzene	ND	0.049		mg/Kg	1	5/6/2022 3:49:46 AM	67243
Xylenes, Total	ND	0.098		mg/Kg	1	5/6/2022 3:49:46 AM	67243
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/6/2022 3:49:46 AM	67243

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205062**

13-May-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **MB-67339**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **67339**	RunNo: **87845**
Prep Date: **5/9/2022**	Analysis Date: **5/9/2022**	SeqNo: **3112966** Units: **mg/Kg**

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

Sample ID: **LCS-67339**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **67339**	RunNo: **87845**
Prep Date: **5/9/2022**	Analysis Date: **5/9/2022**	SeqNo: **3112967** Units: **mg/Kg**

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

Sample ID: **MB-67328**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **67328**	RunNo: **87845**
Prep Date: **5/6/2022**	Analysis Date: **5/9/2022**	SeqNo: **3112998** Units: **mg/Kg**

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

Sample ID: **LCS-67328**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **67328**	RunNo: **87845**
Prep Date: **5/6/2022**	Analysis Date: **5/9/2022**	SeqNo: **3112999** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205062**

13-May-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **LCS-67260**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67260**	RunNo: **87762**
Prep Date: **5/4/2022**	Analysis Date: **5/5/2022**	SeqNo: **3109550** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7		5.000		73.5	51.1	141			

Sample ID: **LCS-67262**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67262**	RunNo: **87762**
Prep Date: **5/4/2022**	Analysis Date: **5/5/2022**	SeqNo: **3109551** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	64	10	50.00	0	127	68.9	135			
Surr: DNOP	5.6		5.000		113	51.1	141			

Sample ID: **MB-67260**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67260**	RunNo: **87762**
Prep Date: **5/4/2022**	Analysis Date: **5/5/2022**	SeqNo: **3109554** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.4		10.00		84.4	51.1	141			

Sample ID: **MB-67262**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67262**	RunNo: **87762**
Prep Date: **5/4/2022**	Analysis Date: **5/5/2022**	SeqNo: **3109555** 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		110	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205062**

13-May-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **mb-67243**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **67243**	RunNo: **87759**
Prep Date: **5/3/2022**	Analysis Date: **5/5/2022**	SeqNo: **3109031** 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	980		1000		98.4	37.7	212			

Sample ID: **lcs-67243**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **67243**	RunNo: **87759**
Prep Date: **5/3/2022**	Analysis Date: **5/5/2022**	SeqNo: **3109032** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.9	72.3	137			
Surr: BFB	2100		1000		206	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205062**

13-May-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **mb-67243**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **67243**	RunNo: **87759**
Prep Date: **5/3/2022**	Analysis Date: **5/5/2022**	SeqNo: **3109075** Units: **mg/Kg**

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

Sample ID: **LCS-67243**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **67243**	RunNo: **87759**
Prep Date: **5/3/2022**	Analysis Date: **5/5/2022**	SeqNo: **3109076** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.8	80	120			
Toluene	0.92	0.050	1.000	0	92.2	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: GHD Midland | Work Order Number: 2205062 | RcptNo: 1

Received By: Juan Rojas 5/3/2022 7:00:00 AM

Completed By: Tracy Casarrubias 5/3/2022 8:40:14 AM

Reviewed By: KPA 5.3.22

Chain of Custody

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

Log In

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

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

Adjusted? _____

Checked by: JN 5/3/22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good	Yes			

Chain-of-Custody Record

Client: EHD

Mailing Address: on file

Phone #:

email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☑ Rush 5 Day

Project Name: Federal BQ Battery

Project #: 12563440

Project Manager: Zach Comino, Becky Haskell

Sampler: ZC

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 1.6+0.1=1.7 (°C)

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2205062	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)
4/29/22	800	soil	BH-1	4oz jar	ice	001	X	X					X			
	805		BH-2			002										
	810		BH-3			003										
	815		BH-4			004										
	900		BH-5			005										
	905		BH-6			006										
	910		BH-7			007										
	915		BH-8			008										
	1000		BH-9			009										
	1005		BH-10			010										
	1010		SW-1			011										
	1015		SW-2			012										

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
			[signature]		5/2/22	800
Date: 5/2/22	Time: 1900	Relinquished by: [signature]	Received by: [signature]	Via: Courier	Date 5/3/22	Time 7:00

Remarks:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

May 27, 2022

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

RE: Federal BQ Battery OrderNo.: 2205385

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 38 sample(s) on 5/7/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-11
Project: Federal BQ Battery
Collection Date: 5/5/2022 8:00:00 AM
Lab ID: 2205385-001 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	390	61		mg/Kg	20	5/11/2022 6:54:24 PM	67404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	2400	190		mg/Kg	20	5/11/2022 2:45:56 PM	67353
Motor Oil Range Organics (MRO)	2100	950		mg/Kg	20	5/11/2022 2:45:56 PM	67353
Surr: DNOP	0	51.1-141	S	%Rec	20	5/11/2022 2:45:56 PM	67353
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	5/11/2022 12:27:13 AM	67343
Surr: BFB	92.2	37.7-212		%Rec	5	5/11/2022 12:27:13 AM	67343
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	5/11/2022 12:27:13 AM	67343
Toluene	ND	0.24		mg/Kg	5	5/11/2022 12:27:13 AM	67343
Ethylbenzene	ND	0.24		mg/Kg	5	5/11/2022 12:27:13 AM	67343
Xylenes, Total	ND	0.49		mg/Kg	5	5/11/2022 12:27:13 AM	67343
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	5	5/11/2022 12:27:13 AM	67343

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-12
Project: Federal BQ Battery
Collection Date: 5/5/2022 8:05:00 AM
Lab ID: 2205385-002 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	290	60		mg/Kg	20	5/11/2022 7:06:44 PM	67404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	70	9.7		mg/Kg	1	5/10/2022 6:46:07 PM	67353
Motor Oil Range Organics (MRO)	71	49		mg/Kg	1	5/10/2022 6:46:07 PM	67353
Surr: DNOP	114	51.1-141		%Rec	1	5/10/2022 6:46:07 PM	67353
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	5/11/2022 1:14:05 AM	67343
Surr: BFB	96.9	37.7-212		%Rec	5	5/11/2022 1:14:05 AM	67343
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.12		mg/Kg	5	5/11/2022 1:14:05 AM	67343
Toluene	ND	0.24		mg/Kg	5	5/11/2022 1:14:05 AM	67343
Ethylbenzene	ND	0.24		mg/Kg	5	5/11/2022 1:14:05 AM	67343
Xylenes, Total	ND	0.47		mg/Kg	5	5/11/2022 1:14:05 AM	67343
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	5	5/11/2022 1:14:05 AM	67343

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-13
Project: Federal BQ Battery
Collection Date: 5/5/2022 8:10:00 AM
Lab ID: 2205385-003 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	82	60		mg/Kg	20	5/11/2022 7:43:46 PM	67404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/10/2022 5:57:23 PM	67353
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/10/2022 5:57:23 PM	67353
Surr: DNOP	100	51.1-141		%Rec	1	5/10/2022 5:57:23 PM	67353
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/11/2022 1:37:31 AM	67343
Surr: BFB	94.8	37.7-212		%Rec	1	5/11/2022 1:37:31 AM	67343
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	5/11/2022 1:37:31 AM	67343
Toluene	ND	0.048		mg/Kg	1	5/11/2022 1:37:31 AM	67343
Ethylbenzene	ND	0.048		mg/Kg	1	5/11/2022 1:37:31 AM	67343
Xylenes, Total	ND	0.095		mg/Kg	1	5/11/2022 1:37:31 AM	67343
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	5/11/2022 1:37:31 AM	67343

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-14
Project: Federal BQ Battery
Collection Date: 5/5/2022 8:15:00 AM
Lab ID: 2205385-004 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	60		mg/Kg	20	5/11/2022 7:56:07 PM	67404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	33	10		mg/Kg	1	5/10/2022 7:34:40 PM	67353
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/10/2022 7:34:40 PM	67353
Surr: DNOP	102	51.1-141		%Rec	1	5/10/2022 7:34:40 PM	67353
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/10/2022 11:11:00 AM	67350
Surr: BFB	94.9	37.7-212		%Rec	1	5/10/2022 11:11:00 AM	67350
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/10/2022 11:11:00 AM	67350
Toluene	ND	0.048		mg/Kg	1	5/10/2022 11:11:00 AM	67350
Ethylbenzene	ND	0.048		mg/Kg	1	5/10/2022 11:11:00 AM	67350
Xylenes, Total	ND	0.096		mg/Kg	1	5/10/2022 11:11:00 AM	67350
Surr: 4-Bromofluorobenzene	77.7	70-130		%Rec	1	5/10/2022 11:11:00 AM	67350

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-15
Project: Federal BQ Battery
Collection Date: 5/5/2022 8:20:00 AM
Lab ID: 2205385-005 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	60		mg/Kg	20	5/11/2022 8:08:28 PM	67404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	2900	180		mg/Kg	20	5/10/2022 8:47:25 PM	67353
Motor Oil Range Organics (MRO)	1500	920		mg/Kg	20	5/10/2022 8:47:25 PM	67353
Surr: DNOP	0	51.1-141	S	%Rec	20	5/10/2022 8:47:25 PM	67353
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	45	24		mg/Kg	5	5/11/2022 2:19:00 PM	67350
Surr: BFB	201	37.7-212		%Rec	5	5/11/2022 2:19:00 PM	67350
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	5/11/2022 2:19:00 PM	67350
Toluene	ND	0.24		mg/Kg	5	5/11/2022 2:19:00 PM	67350
Ethylbenzene	ND	0.24		mg/Kg	5	5/11/2022 2:19:00 PM	67350
Xylenes, Total	ND	0.47		mg/Kg	5	5/11/2022 2:19:00 PM	67350
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	5	5/11/2022 2:19:00 PM	67350

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-16
Project: Federal BQ Battery
Collection Date: 5/5/2022 9:00:00 AM
Lab ID: 2205385-006 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	840	60		mg/Kg	20	5/11/2022 8:20:49 PM	67404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	1500	200		mg/Kg	20	5/13/2022 1:24:18 PM	67354
Motor Oil Range Organics (MRO)	1300	980		mg/Kg	20	5/13/2022 1:24:18 PM	67354
Surr: DNOP	0	51.1-141	S	%Rec	20	5/13/2022 1:24:18 PM	67354
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/10/2022 12:29:00 PM	67350
Surr: BFB	104	37.7-212		%Rec	1	5/10/2022 12:29:00 PM	67350
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	5/10/2022 12:29:00 PM	67350
Toluene	ND	0.047		mg/Kg	1	5/10/2022 12:29:00 PM	67350
Ethylbenzene	ND	0.047		mg/Kg	1	5/10/2022 12:29:00 PM	67350
Xylenes, Total	ND	0.094		mg/Kg	1	5/10/2022 12:29:00 PM	67350
Surr: 4-Bromofluorobenzene	78.1	70-130		%Rec	1	5/10/2022 12:29:00 PM	67350

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-17
Project: Federal BQ Battery
Collection Date: 5/5/2022 9:05:00 AM
Lab ID: 2205385-007 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	960	60		mg/Kg	20	5/11/2022 8:33:10 PM	67404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	89	9.7		mg/Kg	1	5/11/2022 2:58:24 PM	67354
Motor Oil Range Organics (MRO)	80	48		mg/Kg	1	5/11/2022 2:58:24 PM	67354
Surr: DNOP	95.3	51.1-141		%Rec	1	5/11/2022 2:58:24 PM	67354
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/10/2022 12:49:00 PM	67350
Surr: BFB	92.7	37.7-212		%Rec	1	5/10/2022 12:49:00 PM	67350
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	5/10/2022 12:49:00 PM	67350
Toluene	ND	0.047		mg/Kg	1	5/10/2022 12:49:00 PM	67350
Ethylbenzene	ND	0.047		mg/Kg	1	5/10/2022 12:49:00 PM	67350
Xylenes, Total	ND	0.094		mg/Kg	1	5/10/2022 12:49:00 PM	67350
Surr: 4-Bromofluorobenzene	76.2	70-130		%Rec	1	5/10/2022 12:49:00 PM	67350

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-18
Project: Federal BQ Battery
Collection Date: 5/5/2022 9:10:00 AM
Lab ID: 2205385-008 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	60		mg/Kg	20	5/11/2022 8:45:30 PM	67404
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	170	9.9		mg/Kg	1	5/13/2022 1:02:27 PM	67354
Motor Oil Range Organics (MRO)	220	50		mg/Kg	1	5/13/2022 1:02:27 PM	67354
Surr: DNOP	72.0	51.1-141		%Rec	1	5/13/2022 1:02:27 PM	67354
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/10/2022 1:09:00 PM	67350
Surr: BFB	93.8	37.7-212		%Rec	1	5/10/2022 1:09:00 PM	67350
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	5/10/2022 1:09:00 PM	67350
Toluene	ND	0.049		mg/Kg	1	5/10/2022 1:09:00 PM	67350
Ethylbenzene	ND	0.049		mg/Kg	1	5/10/2022 1:09:00 PM	67350
Xylenes, Total	ND	0.098		mg/Kg	1	5/10/2022 1:09:00 PM	67350
Surr: 4-Bromofluorobenzene	77.6	70-130		%Rec	1	5/10/2022 1:09:00 PM	67350

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-19
Project: Federal BQ Battery
Collection Date: 5/5/2022 9:15:00 AM
Lab ID: 2205385-009 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	60		mg/Kg	20	5/12/2022 1:20:39 PM	67428
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	360	9.8		mg/Kg	1	5/13/2022 1:32:01 PM	67354
Motor Oil Range Organics (MRO)	300	49		mg/Kg	1	5/13/2022 1:32:01 PM	67354
Surr: DNOP	105	51.1-141		%Rec	1	5/13/2022 1:32:01 PM	67354
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/10/2022 1:28:00 PM	67350
Surr: BFB	92.6	37.7-212		%Rec	1	5/10/2022 1:28:00 PM	67350
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/10/2022 1:28:00 PM	67350
Toluene	ND	0.048		mg/Kg	1	5/10/2022 1:28:00 PM	67350
Ethylbenzene	ND	0.048		mg/Kg	1	5/10/2022 1:28:00 PM	67350
Xylenes, Total	ND	0.096		mg/Kg	1	5/10/2022 1:28:00 PM	67350
Surr: 4-Bromofluorobenzene	76.5	70-130		%Rec	1	5/10/2022 1:28:00 PM	67350

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-20
Project: Federal BQ Battery
Collection Date: 5/5/2022 9:20:00 AM
Lab ID: 2205385-010 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	60		mg/Kg	20	5/12/2022 2:30:03 PM	67428
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	90	9.6		mg/Kg	1	5/11/2022 4:13:39 PM	67354
Motor Oil Range Organics (MRO)	85	48		mg/Kg	1	5/11/2022 4:13:39 PM	67354
Surr: DNOP	90.9	51.1-141		%Rec	1	5/11/2022 4:13:39 PM	67354
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/10/2022 1:48:00 PM	67350
Surr: BFB	93.8	37.7-212		%Rec	1	5/10/2022 1:48:00 PM	67350
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	5/10/2022 1:48:00 PM	67350
Toluene	ND	0.046		mg/Kg	1	5/10/2022 1:48:00 PM	67350
Ethylbenzene	ND	0.046		mg/Kg	1	5/10/2022 1:48:00 PM	67350
Xylenes, Total	ND	0.091		mg/Kg	1	5/10/2022 1:48:00 PM	67350
Surr: 4-Bromofluorobenzene	77.9	70-130		%Rec	1	5/10/2022 1:48:00 PM	67350

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SW-3
Project: Federal BQ Battery
Collection Date: 5/5/2022 10:00:00 AM
Lab ID: 2205385-011 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	3900	150		mg/Kg	50	5/13/2022 12:54:55 PM	67428
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	1900	200		mg/Kg	20	5/11/2022 4:28:35 PM	67354
Motor Oil Range Organics (MRO)	1800	1000		mg/Kg	20	5/11/2022 4:28:35 PM	67354
Surr: DNOP	0	51.1-141	S	%Rec	20	5/11/2022 4:28:35 PM	67354
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	5/10/2022 2:07:00 PM	67350
Surr: BFB	110	37.7-212		%Rec	5	5/10/2022 2:07:00 PM	67350
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.11		mg/Kg	5	5/10/2022 2:07:00 PM	67350
Toluene	ND	0.23		mg/Kg	5	5/10/2022 2:07:00 PM	67350
Ethylbenzene	ND	0.23		mg/Kg	5	5/10/2022 2:07:00 PM	67350
Xylenes, Total	ND	0.46		mg/Kg	5	5/10/2022 2:07:00 PM	67350
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	5	5/10/2022 2:07:00 PM	67350

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SW-4
Project: Federal BQ Battery
Collection Date: 5/5/2022 10:05:00 AM
Lab ID: 2205385-012 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	550	60		mg/Kg	20	5/12/2022 2:54:44 PM	67428
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	12	9.7		mg/Kg	1	5/11/2022 4:43:27 PM	67354
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/11/2022 4:43:27 PM	67354
Surr: DNOP	87.3	51.1-141		%Rec	1	5/11/2022 4:43:27 PM	67354
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/10/2022 2:27:00 PM	67350
Surr: BFB	97.6	37.7-212		%Rec	1	5/10/2022 2:27:00 PM	67350
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/10/2022 2:27:00 PM	67350
Toluene	ND	0.048		mg/Kg	1	5/10/2022 2:27:00 PM	67350
Ethylbenzene	ND	0.048		mg/Kg	1	5/10/2022 2:27:00 PM	67350
Xylenes, Total	ND	0.096		mg/Kg	1	5/10/2022 2:27:00 PM	67350
Surr: 4-Bromofluorobenzene	78.8	70-130		%Rec	1	5/10/2022 2:27:00 PM	67350

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SW-5
Project: Federal BQ Battery
Collection Date: 5/5/2022 10:10:00 AM
Lab ID: 2205385-013 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	60		mg/Kg	20	5/12/2022 3:07:04 PM	67428
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	13	9.5		mg/Kg	1	5/17/2022 12:55:13 PM	67354
Motor Oil Range Organics (MRO)	84	47		mg/Kg	1	5/17/2022 12:55:13 PM	67354
Surr: DNOP	95.5	51.1-141		%Rec	1	5/17/2022 12:55:13 PM	67354
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/10/2022 2:47:00 PM	67350
Surr: BFB	101	37.7-212		%Rec	1	5/10/2022 2:47:00 PM	67350
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	5/10/2022 2:47:00 PM	67350
Toluene	ND	0.049		mg/Kg	1	5/10/2022 2:47:00 PM	67350
Ethylbenzene	ND	0.049		mg/Kg	1	5/10/2022 2:47:00 PM	67350
Xylenes, Total	ND	0.098		mg/Kg	1	5/10/2022 2:47:00 PM	67350
Surr: 4-Bromofluorobenzene	78.8	70-130		%Rec	1	5/10/2022 2:47:00 PM	67350

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SW-6
Project: Federal BQ Battery
Collection Date: 5/5/2022 10:15:00 AM
Lab ID: 2205385-014 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	60		mg/Kg	20	5/12/2022 3:19:25 PM	67428
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/11/2022 5:13:24 PM	67354
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/11/2022 5:13:24 PM	67354
Surr: DNOP	85.3	51.1-141		%Rec	1	5/11/2022 5:13:24 PM	67354
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/10/2022 3:46:00 PM	67350
Surr: BFB	97.3	37.7-212		%Rec	1	5/10/2022 3:46:00 PM	67350
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/10/2022 3:46:00 PM	67350
Toluene	ND	0.048		mg/Kg	1	5/10/2022 3:46:00 PM	67350
Ethylbenzene	ND	0.048		mg/Kg	1	5/10/2022 3:46:00 PM	67350
Xylenes, Total	ND	0.096		mg/Kg	1	5/10/2022 3:46:00 PM	67350
Surr: 4-Bromofluorobenzene	78.2	70-130		%Rec	1	5/10/2022 3:46:00 PM	67350

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SW-7
Project: Federal BQ Battery
Collection Date: 5/5/2022 10:20:00 AM
Lab ID: 2205385-015 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	60		mg/Kg	20	5/12/2022 3:31:46 PM	67428
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	32	9.7		mg/Kg	1	5/16/2022 10:50:22 AM	67354
Motor Oil Range Organics (MRO)	69	48		mg/Kg	1	5/16/2022 10:50:22 AM	67354
Surr: DNOP	91.9	51.1-141		%Rec	1	5/16/2022 10:50:22 AM	67354
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/10/2022 4:06:00 PM	67350
Surr: BFB	95.6	37.7-212		%Rec	1	5/10/2022 4:06:00 PM	67350
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	5/10/2022 4:06:00 PM	67350
Toluene	ND	0.046		mg/Kg	1	5/10/2022 4:06:00 PM	67350
Ethylbenzene	ND	0.046		mg/Kg	1	5/10/2022 4:06:00 PM	67350
Xylenes, Total	ND	0.092		mg/Kg	1	5/10/2022 4:06:00 PM	67350
Surr: 4-Bromofluorobenzene	78.0	70-130		%Rec	1	5/10/2022 4:06:00 PM	67350

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SW-8
Project: Federal BQ Battery
Collection Date: 5/5/2022 1:00:00 PM
Lab ID: 2205385-016 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	430	60		mg/Kg	20	5/12/2022 3:44:07 PM	67428
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	350	9.9		mg/Kg	1	5/11/2022 5:43:26 PM	67354
Motor Oil Range Organics (MRO)	120	50		mg/Kg	1	5/11/2022 5:43:26 PM	67354
Surr: DNOP	86.6	51.1-141		%Rec	1	5/11/2022 5:43:26 PM	67354
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**BRM**
Gasoline Range Organics (GRO)	73	24		mg/Kg	5	5/11/2022 3:18:00 PM	67350
Surr: BFB	257	37.7-212	S	%Rec	5	5/11/2022 3:18:00 PM	67350
EPA METHOD 8021B: VOLATILES						Analyst:	**BRM**
Benzene	ND	0.12		mg/Kg	5	5/11/2022 3:18:00 PM	67350
Toluene	ND	0.24		mg/Kg	5	5/11/2022 3:18:00 PM	67350
Ethylbenzene	0.57	0.24		mg/Kg	5	5/11/2022 3:18:00 PM	67350
Xylenes, Total	1.6	0.49		mg/Kg	5	5/11/2022 3:18:00 PM	67350
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	5	5/11/2022 3:18:00 PM	67350

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-21
Project: Federal BQ Battery
Collection Date: 5/5/2022 1:10:00 PM
Lab ID: 2205385-017 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	280	60		mg/Kg	20	5/12/2022 3:56:28 PM	67428
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	820	9.9		mg/Kg	1	5/11/2022 5:58:54 PM	67354
Motor Oil Range Organics (MRO)	350	49		mg/Kg	1	5/11/2022 5:58:54 PM	67354
Surr: DNOP	86.0	51.1-141		%Rec	1	5/11/2022 5:58:54 PM	67354
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	97	25		mg/Kg	5	5/11/2022 3:38:00 PM	67350
Surr: BFB	269	37.7-212	S	%Rec	5	5/11/2022 3:38:00 PM	67350
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	5/11/2022 3:38:00 PM	67350
Toluene	ND	0.25		mg/Kg	5	5/11/2022 3:38:00 PM	67350
Ethylbenzene	0.70	0.25		mg/Kg	5	5/11/2022 3:38:00 PM	67350
Xylenes, Total	0.65	0.50		mg/Kg	5	5/11/2022 3:38:00 PM	67350
Surr: 4-Bromofluorobenzene	135	70-130	S	%Rec	5	5/11/2022 3:38:00 PM	67350

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SBH-1
Project: Federal BQ Battery
Collection Date: 5/5/2022 1:15:00 PM
Lab ID: 2205385-018 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	60		mg/Kg	20	5/12/2022 4:33:30 PM	67428
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/11/2022 6:29:26 PM	67354
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/11/2022 6:29:26 PM	67354
Surr: DNOP	80.1	51.1-141		%Rec	1	5/11/2022 6:29:26 PM	67354
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/10/2022 5:05:00 PM	67350
Surr: BFB	96.9	37.7-212		%Rec	1	5/10/2022 5:05:00 PM	67350
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/10/2022 5:05:00 PM	67350
Toluene	ND	0.049		mg/Kg	1	5/10/2022 5:05:00 PM	67350
Ethylbenzene	ND	0.049		mg/Kg	1	5/10/2022 5:05:00 PM	67350
Xylenes, Total	ND	0.098		mg/Kg	1	5/10/2022 5:05:00 PM	67350
Surr: 4-Bromofluorobenzene	79.6	70-130		%Rec	1	5/10/2022 5:05:00 PM	67350

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SSW-1
Project: Federal BQ Battery
Collection Date: 5/5/2022 1:20:00 PM
Lab ID: 2205385-019 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	60		mg/Kg	20	5/12/2022 4:45:51 PM	67428
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/11/2022 6:59:30 PM	67354
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/11/2022 6:59:30 PM	67354
Surr: DNOP	88.6	51.1-141		%Rec	1	5/11/2022 6:59:30 PM	67354
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/10/2022 5:25:00 PM	67350
Surr: BFB	96.1	37.7-212		%Rec	1	5/10/2022 5:25:00 PM	67350
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	5/10/2022 5:25:00 PM	67350
Toluene	ND	0.049		mg/Kg	1	5/10/2022 5:25:00 PM	67350
Ethylbenzene	ND	0.049		mg/Kg	1	5/10/2022 5:25:00 PM	67350
Xylenes, Total	ND	0.099		mg/Kg	1	5/10/2022 5:25:00 PM	67350
Surr: 4-Bromofluorobenzene	78.3	70-130		%Rec	1	5/10/2022 5:25:00 PM	67350

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SSW-2
Project: Federal BQ Battery
Collection Date: 5/5/2022 1:25:00 PM
Lab ID: 2205385-020 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	60		mg/Kg	20	5/12/2022 4:58:11 PM	67428
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/11/2022 7:29:56 PM	67354
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/11/2022 7:29:56 PM	67354
Surr: DNOP	92.9	51.1-141		%Rec	1	5/11/2022 7:29:56 PM	67354
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/10/2022 5:44:00 PM	67350
Surr: BFB	98.9	37.7-212		%Rec	1	5/10/2022 5:44:00 PM	67350
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	5/10/2022 5:44:00 PM	67350
Toluene	ND	0.049		mg/Kg	1	5/10/2022 5:44:00 PM	67350
Ethylbenzene	ND	0.049		mg/Kg	1	5/10/2022 5:44:00 PM	67350
Xylenes, Total	ND	0.098		mg/Kg	1	5/10/2022 5:44:00 PM	67350
Surr: 4-Bromofluorobenzene	77.8	70-130		%Rec	1	5/10/2022 5:44:00 PM	67350

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-22
Project: Federal BQ Battery
Collection Date: 5/5/2022 1:30:00 PM
Lab ID: 2205385-021 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	580	60		mg/Kg	20	5/12/2022 5:10:32 PM	67428
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	430	9.8		mg/Kg	1	5/13/2022 4:27:27 PM	67354
Motor Oil Range Organics (MRO)	370	49		mg/Kg	1	5/13/2022 4:27:27 PM	67354
Surr: DNOP	91.3	51.1-141		%Rec	1	5/13/2022 4:27:27 PM	67354
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/10/2022 6:04:00 PM	67350
Surr: BFB	104	37.7-212		%Rec	1	5/10/2022 6:04:00 PM	67350
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	5/10/2022 6:04:00 PM	67350
Toluene	ND	0.047		mg/Kg	1	5/10/2022 6:04:00 PM	67350
Ethylbenzene	ND	0.047		mg/Kg	1	5/10/2022 6:04:00 PM	67350
Xylenes, Total	ND	0.094		mg/Kg	1	5/10/2022 6:04:00 PM	67350
Surr: 4-Bromofluorobenzene	80.0	70-130		%Rec	1	5/10/2022 6:04:00 PM	67350

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-23
Project: Federal BQ Battery
Collection Date: 5/5/2022 1:35:00 PM
Lab ID: 2205385-022 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	820	60		mg/Kg	20	5/12/2022 5:22:53 PM	67428
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	26	9.7		mg/Kg	1	5/11/2022 7:59:40 PM	67354
Motor Oil Range Organics (MRO)	57	48		mg/Kg	1	5/11/2022 7:59:40 PM	67354
Surr: DNOP	119	51.1-141		%Rec	1	5/11/2022 7:59:40 PM	67354
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/10/2022 6:24:00 PM	67350
Surr: BFB	97.1	37.7-212		%Rec	1	5/10/2022 6:24:00 PM	67350
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/10/2022 6:24:00 PM	67350
Toluene	ND	0.048		mg/Kg	1	5/10/2022 6:24:00 PM	67350
Ethylbenzene	ND	0.048		mg/Kg	1	5/10/2022 6:24:00 PM	67350
Xylenes, Total	ND	0.095		mg/Kg	1	5/10/2022 6:24:00 PM	67350
Surr: 4-Bromofluorobenzene	78.0	70-130		%Rec	1	5/10/2022 6:24:00 PM	67350

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-24
Project: Federal BQ Battery
Collection Date: 5/5/2022 1:40:00 PM
Lab ID: 2205385-023 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	1300	59		mg/Kg	20	5/12/2022 5:35:14 PM	67428
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	1200	200		mg/Kg	20	5/13/2022 1:56:19 PM	67354
Motor Oil Range Organics (MRO)	2000	1000		mg/Kg	20	5/13/2022 1:56:19 PM	67354
Surr: DNOP	0	51.1-141	S	%Rec	20	5/13/2022 1:56:19 PM	67354
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/10/2022 6:44:00 PM	67350
Surr: BFB	91.6	37.7-212		%Rec	1	5/10/2022 6:44:00 PM	67350
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	5/10/2022 6:44:00 PM	67350
Toluene	ND	0.050		mg/Kg	1	5/10/2022 6:44:00 PM	67350
Ethylbenzene	ND	0.050		mg/Kg	1	5/10/2022 6:44:00 PM	67350
Xylenes, Total	ND	0.10		mg/Kg	1	5/10/2022 6:44:00 PM	67350
Surr: 4-Bromofluorobenzene	73.5	70-130		%Rec	1	5/10/2022 6:44:00 PM	67350

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-25
Project: Federal BQ Battery
Collection Date: 5/5/2022 1:45:00 PM
Lab ID: 2205385-024 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	2800	150		mg/Kg	50	5/13/2022 1:07:16 PM	67438
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/11/2022 8:44:49 PM	67354
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/11/2022 8:44:49 PM	67354
Surr: DNOP	77.8	51.1-141		%Rec	1	5/11/2022 8:44:49 PM	67354
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/10/2022 9:01:00 PM	67351
Surr: BFB	98.1	37.7-212		%Rec	1	5/10/2022 9:01:00 PM	67351
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	5/12/2022 12:07:56 PM	67351
Toluene	ND	0.049		mg/Kg	1	5/12/2022 12:07:56 PM	67351
Ethylbenzene	ND	0.049		mg/Kg	1	5/12/2022 12:07:56 PM	67351
Xylenes, Total	ND	0.098		mg/Kg	1	5/12/2022 12:07:56 PM	67351
Surr: 1,2-Dichloroethane-d4	82.9	70-130		%Rec	1	5/12/2022 12:07:56 PM	67351
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	5/12/2022 12:07:56 PM	67351
Surr: Dibromofluoromethane	86.7	70-130		%Rec	1	5/12/2022 12:07:56 PM	67351
Surr: Toluene-d8	110	70-130		%Rec	1	5/12/2022 12:07:56 PM	67351

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-26
Project: Federal BQ Battery
Collection Date: 5/5/2022 1:50:00 PM
Lab ID: 2205385-025 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	4800	300		mg/Kg	100	5/13/2022 1:19:37 PM	67438
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/11/2022 8:59:30 PM	67354
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/11/2022 8:59:30 PM	67354
Surr: DNOP	89.2	51.1-141		%Rec	1	5/11/2022 8:59:30 PM	67354
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/10/2022 10:00:00 PM	67351
Surr: BFB	96.2	37.7-212		%Rec	1	5/10/2022 10:00:00 PM	67351
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	5/12/2022 12:34:54 PM	67351
Toluene	ND	0.049		mg/Kg	1	5/12/2022 12:34:54 PM	67351
Ethylbenzene	ND	0.049		mg/Kg	1	5/12/2022 12:34:54 PM	67351
Xylenes, Total	ND	0.099		mg/Kg	1	5/12/2022 12:34:54 PM	67351
Surr: 1,2-Dichloroethane-d4	81.4	70-130		%Rec	1	5/12/2022 12:34:54 PM	67351
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/12/2022 12:34:54 PM	67351
Surr: Dibromofluoromethane	87.2	70-130		%Rec	1	5/12/2022 12:34:54 PM	67351
Surr: Toluene-d8	107	70-130		%Rec	1	5/12/2022 12:34:54 PM	67351

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SW-9
Project: Federal BQ Battery
Collection Date: 5/5/2022 1:55:00 PM
Lab ID: 2205385-026 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1600	60		mg/Kg	20	5/13/2022 1:15:52 AM	67438
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	96	9.8		mg/Kg	1	5/13/2022 2:39:44 PM	67380
Motor Oil Range Organics (MRO)	230	49		mg/Kg	1	5/13/2022 2:39:44 PM	67380
Surr: DNOP	117	51.1-141		%Rec	1	5/13/2022 2:39:44 PM	67380
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/10/2022 10:59:00 PM	67351
Surr: BFB	94.3	37.7-212		%Rec	1	5/10/2022 10:59:00 PM	67351
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	5/12/2022 1:56:01 PM	67351
Toluene	ND	0.049		mg/Kg	1	5/12/2022 1:56:01 PM	67351
Ethylbenzene	ND	0.049		mg/Kg	1	5/12/2022 1:56:01 PM	67351
Xylenes, Total	ND	0.098		mg/Kg	1	5/12/2022 1:56:01 PM	67351
Surr: 1,2-Dichloroethane-d4	77.6	70-130		%Rec	1	5/12/2022 1:56:01 PM	67351
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	5/12/2022 1:56:01 PM	67351
Surr: Dibromofluoromethane	85.0	70-130		%Rec	1	5/12/2022 1:56:01 PM	67351
Surr: Toluene-d8	108	70-130		%Rec	1	5/12/2022 1:56:01 PM	67351

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SW-10
Project: Federal BQ Battery
Collection Date: 5/5/2022 2:00:00 PM
Lab ID: 2205385-027 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	2100	150		mg/Kg	50	5/13/2022 1:31:58 PM	67438
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	670	50		mg/Kg	5	5/16/2022 11:14:00 AM	67380
Motor Oil Range Organics (MRO)	600	250		mg/Kg	5	5/16/2022 11:14:00 AM	67380
Surr: DNOP	115	51.1-141		%Rec	5	5/16/2022 11:14:00 AM	67380
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	5/10/2022 11:19:00 PM	67351
Surr: BFB	102	37.7-212		%Rec	5	5/10/2022 11:19:00 PM	67351
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	0.12		mg/Kg	5	5/12/2022 2:23:02 PM	67351
Toluene	ND	0.24		mg/Kg	5	5/12/2022 2:23:02 PM	67351
Ethylbenzene	ND	0.24		mg/Kg	5	5/12/2022 2:23:02 PM	67351
Xylenes, Total	ND	0.48		mg/Kg	5	5/12/2022 2:23:02 PM	67351
Surr: 1,2-Dichloroethane-d4	81.1	70-130		%Rec	5	5/12/2022 2:23:02 PM	67351
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	5	5/12/2022 2:23:02 PM	67351
Surr: Dibromofluoromethane	90.8	70-130		%Rec	5	5/12/2022 2:23:02 PM	67351
Surr: Toluene-d8	106	70-130		%Rec	5	5/12/2022 2:23:02 PM	67351

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SW-11
Project: Federal BQ Battery
Collection Date: 5/5/2022 2:10:00 PM
Lab ID: 2205385-028 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	210	60		mg/Kg	20	5/13/2022 1:40:41 AM	67438
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/11/2022 2:26:50 PM	67380
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/11/2022 2:26:50 PM	67380
Surr: DNOP	90.4	51.1-141		%Rec	1	5/11/2022 2:26:50 PM	67380
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/10/2022 11:38:00 PM	67351
Surr: BFB	101	37.7-212		%Rec	1	5/10/2022 11:38:00 PM	67351
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	0.023		mg/Kg	1	5/12/2022 2:50:03 PM	67351
Toluene	ND	0.047		mg/Kg	1	5/12/2022 2:50:03 PM	67351
Ethylbenzene	ND	0.047		mg/Kg	1	5/12/2022 2:50:03 PM	67351
Xylenes, Total	ND	0.093		mg/Kg	1	5/12/2022 2:50:03 PM	67351
Surr: 1,2-Dichloroethane-d4	77.4	70-130		%Rec	1	5/12/2022 2:50:03 PM	67351
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	5/12/2022 2:50:03 PM	67351
Surr: Dibromofluoromethane	87.0	70-130		%Rec	1	5/12/2022 2:50:03 PM	67351
Surr: Toluene-d8	106	70-130		%Rec	1	5/12/2022 2:50:03 PM	67351

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SW-12
Project: Federal BQ Battery
Collection Date: 5/5/2022 2:15:00 PM
Lab ID: 2205385-029 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	5/13/2022 1:53:05 AM	67438
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	36	9.9		mg/Kg	1	5/17/2022 3:15:47 PM	67380
Motor Oil Range Organics (MRO)	160	49		mg/Kg	1	5/17/2022 3:15:47 PM	67380
Surr: DNOP	85.6	51.1-141		%Rec	1	5/17/2022 3:15:47 PM	67380
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/10/2022 11:58:00 PM	67351
Surr: BFB	97.9	37.7-212		%Rec	1	5/10/2022 11:58:00 PM	67351
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	5/12/2022 3:17:01 PM	67351
Toluene	ND	0.050		mg/Kg	1	5/12/2022 3:17:01 PM	67351
Ethylbenzene	ND	0.050		mg/Kg	1	5/12/2022 3:17:01 PM	67351
Xylenes, Total	ND	0.099		mg/Kg	1	5/12/2022 3:17:01 PM	67351
Surr: 1,2-Dichloroethane-d4	82.4	70-130		%Rec	1	5/12/2022 3:17:01 PM	67351
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	5/12/2022 3:17:01 PM	67351
Surr: Dibromofluoromethane	88.4	70-130		%Rec	1	5/12/2022 3:17:01 PM	67351
Surr: Toluene-d8	99.5	70-130		%Rec	1	5/12/2022 3:17:01 PM	67351

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SW-13
Project: Federal BQ Battery
Collection Date: 5/5/2022 2:20:00 PM
Lab ID: 2205385-030 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	5/13/2022 2:05:30 AM	67438
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/11/2022 3:15:39 PM	67380
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/11/2022 3:15:39 PM	67380
Surr: DNOP	58.7	51.1-141		%Rec	1	5/11/2022 3:15:39 PM	67380
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/11/2022 12:18:00 AM	67351
Surr: BFB	110	37.7-212		%Rec	1	5/11/2022 12:18:00 AM	67351
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/12/2022 3:44:03 PM	67351
Toluene	ND	0.049		mg/Kg	1	5/12/2022 3:44:03 PM	67351
Ethylbenzene	ND	0.049		mg/Kg	1	5/12/2022 3:44:03 PM	67351
Xylenes, Total	ND	0.098		mg/Kg	1	5/12/2022 3:44:03 PM	67351
Surr: 1,2-Dichloroethane-d4	80.6	70-130		%Rec	1	5/12/2022 3:44:03 PM	67351
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	5/12/2022 3:44:03 PM	67351
Surr: Dibromofluoromethane	86.7	70-130		%Rec	1	5/12/2022 3:44:03 PM	67351
Surr: Toluene-d8	103	70-130		%Rec	1	5/12/2022 3:44:03 PM	67351

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SW-15
Project: Federal BQ Battery
Collection Date: 5/5/2022 2:30:00 PM
Lab ID: 2205385-032 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	5/13/2022 2:17:55 AM	67438
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/13/2022 11:47:49 AM	67380
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/13/2022 11:47:49 AM	67380
Surr: DNOP	81.2	51.1-141		%Rec	1	5/13/2022 11:47:49 AM	67380
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/11/2022 12:37:00 AM	67351
Surr: BFB	100	37.7-212		%Rec	1	5/11/2022 12:37:00 AM	67351
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	5/12/2022 4:11:05 PM	67351
Toluene	ND	0.049		mg/Kg	1	5/12/2022 4:11:05 PM	67351
Ethylbenzene	ND	0.049		mg/Kg	1	5/12/2022 4:11:05 PM	67351
Xylenes, Total	ND	0.099		mg/Kg	1	5/12/2022 4:11:05 PM	67351
Surr: 1,2-Dichloroethane-d4	84.0	70-130		%Rec	1	5/12/2022 4:11:05 PM	67351
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	5/12/2022 4:11:05 PM	67351
Surr: Dibromofluoromethane	89.7	70-130		%Rec	1	5/12/2022 4:11:05 PM	67351
Surr: Toluene-d8	109	70-130		%Rec	1	5/12/2022 4:11:05 PM	67351

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-27
Project: Federal BQ Battery
Collection Date: 5/5/2022 2:35:00 PM
Lab ID: 2205385-033 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	2100	150		mg/Kg	50	5/13/2022 1:44:19 PM	67438
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/13/2022 12:11:40 PM	67380
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/13/2022 12:11:40 PM	67380
Surr: DNOP	106	51.1-141		%Rec	1	5/13/2022 12:11:40 PM	67380
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/11/2022 12:57:00 AM	67351
Surr: BFB	100	37.7-212		%Rec	1	5/11/2022 12:57:00 AM	67351
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	5/12/2022 4:38:10 PM	67351
Toluene	ND	0.049		mg/Kg	1	5/12/2022 4:38:10 PM	67351
Ethylbenzene	ND	0.049		mg/Kg	1	5/12/2022 4:38:10 PM	67351
Xylenes, Total	ND	0.098		mg/Kg	1	5/12/2022 4:38:10 PM	67351
Surr: 1,2-Dichloroethane-d4	83.3	70-130		%Rec	1	5/12/2022 4:38:10 PM	67351
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	5/12/2022 4:38:10 PM	67351
Surr: Dibromofluoromethane	90.1	70-130		%Rec	1	5/12/2022 4:38:10 PM	67351
Surr: Toluene-d8	111	70-130		%Rec	1	5/12/2022 4:38:10 PM	67351

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-28
Project: Federal BQ Battery
Collection Date: 5/5/2022 2:40:00 PM
Lab ID: 2205385-034 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	1700	60		mg/Kg	20	5/13/2022 2:42:43 AM	67438
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/13/2022 12:35:35 PM	67380
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/13/2022 12:35:35 PM	67380
Surr: DNOP	91.8	51.1-141		%Rec	1	5/13/2022 12:35:35 PM	67380
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/11/2022 1:17:00 AM	67351
Surr: BFB	99.2	37.7-212		%Rec	1	5/11/2022 1:17:00 AM	67351
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	0.025		mg/Kg	1	5/12/2022 5:05:14 PM	67351
Toluene	ND	0.049		mg/Kg	1	5/12/2022 5:05:14 PM	67351
Ethylbenzene	ND	0.049		mg/Kg	1	5/12/2022 5:05:14 PM	67351
Xylenes, Total	ND	0.099		mg/Kg	1	5/12/2022 5:05:14 PM	67351
Surr: 1,2-Dichloroethane-d4	81.9	70-130		%Rec	1	5/12/2022 5:05:14 PM	67351
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	5/12/2022 5:05:14 PM	67351
Surr: Dibromofluoromethane	85.1	70-130		%Rec	1	5/12/2022 5:05:14 PM	67351
Surr: Toluene-d8	110	70-130		%Rec	1	5/12/2022 5:05:14 PM	67351

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-29
Project: Federal BQ Battery
Collection Date: 5/5/2022 2:45:00 PM
Lab ID: 2205385-035 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	520	60		mg/Kg	20	5/13/2022 2:55:08 AM	67438
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/13/2022 12:59:45 PM	67380
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/13/2022 12:59:45 PM	67380
Surr: DNOP	76.7	51.1-141		%Rec	1	5/13/2022 12:59:45 PM	67380
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/11/2022 2:16:00 AM	67351
Surr: BFB	98.2	37.7-212		%Rec	1	5/11/2022 2:16:00 AM	67351
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/12/2022 5:32:15 PM	67351
Toluene	ND	0.048		mg/Kg	1	5/12/2022 5:32:15 PM	67351
Ethylbenzene	ND	0.048		mg/Kg	1	5/12/2022 5:32:15 PM	67351
Xylenes, Total	ND	0.096		mg/Kg	1	5/12/2022 5:32:15 PM	67351
Surr: 1,2-Dichloroethane-d4	82.0	70-130		%Rec	1	5/12/2022 5:32:15 PM	67351
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	5/12/2022 5:32:15 PM	67351
Surr: Dibromofluoromethane	88.3	70-130		%Rec	1	5/12/2022 5:32:15 PM	67351
Surr: Toluene-d8	104	70-130		%Rec	1	5/12/2022 5:32:15 PM	67351

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-30
Project: Federal BQ Battery
Collection Date: 5/5/2022 2:50:00 PM
Lab ID: 2205385-036 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	440	60		mg/Kg	20	5/13/2022 3:07:32 AM	67438
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	21	9.8		mg/Kg	1	5/13/2022 1:23:54 PM	67380
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/13/2022 1:23:54 PM	67380
Surr: DNOP	95.1	51.1-141		%Rec	1	5/13/2022 1:23:54 PM	67380
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/11/2022 2:35:00 AM	67351
Surr: BFB	103	37.7-212		%Rec	1	5/11/2022 2:35:00 AM	67351
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/12/2022 5:59:19 PM	67351
Toluene	ND	0.047		mg/Kg	1	5/12/2022 5:59:19 PM	67351
Ethylbenzene	ND	0.047		mg/Kg	1	5/12/2022 5:59:19 PM	67351
Xylenes, Total	ND	0.095		mg/Kg	1	5/12/2022 5:59:19 PM	67351
Surr: 1,2-Dichloroethane-d4	86.2	70-130		%Rec	1	5/12/2022 5:59:19 PM	67351
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	5/12/2022 5:59:19 PM	67351
Surr: Dibromofluoromethane	92.1	70-130		%Rec	1	5/12/2022 5:59:19 PM	67351
Surr: Toluene-d8	107	70-130		%Rec	1	5/12/2022 5:59:19 PM	67351

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-31
Project: Federal BQ Battery
Collection Date: 5/5/2022 2:55:00 PM
Lab ID: 2205385-037 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	150	60		mg/Kg	20	5/13/2022 3:44:45 AM	67438
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	5/13/2022 1:47:58 PM	67380
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/13/2022 1:47:58 PM	67380
Surr: DNOP	112	51.1-141		%Rec	1	5/13/2022 1:47:58 PM	67380
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/11/2022 2:55:00 AM	67351
Surr: BFB	95.8	37.7-212		%Rec	1	5/11/2022 2:55:00 AM	67351
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/12/2022 6:26:22 PM	67351
Toluene	ND	0.047		mg/Kg	1	5/12/2022 6:26:22 PM	67351
Ethylbenzene	ND	0.047		mg/Kg	1	5/12/2022 6:26:22 PM	67351
Xylenes, Total	ND	0.095		mg/Kg	1	5/12/2022 6:26:22 PM	67351
Surr: 1,2-Dichloroethane-d4	80.9	70-130		%Rec	1	5/12/2022 6:26:22 PM	67351
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	1	5/12/2022 6:26:22 PM	67351
Surr: Dibromofluoromethane	86.2	70-130		%Rec	1	5/12/2022 6:26:22 PM	67351
Surr: Toluene-d8	105	70-130		%Rec	1	5/12/2022 6:26:22 PM	67351

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

Qualifiers:

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

Analytical Report
Lab Order **2205385**
Date Reported: **5/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: BH-32
Project: Federal BQ Battery
Collection Date: 5/5/2022 3:00:00 PM
Lab ID: 2205385-038 **Matrix:** SOIL **Received Date:** 5/7/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	290	60		mg/Kg	20	5/13/2022 3:57:10 AM	67438
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/13/2022 2:12:03 PM	67380
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/13/2022 2:12:03 PM	67380
Surr: DNOP	101	51.1-141		%Rec	1	5/13/2022 2:12:03 PM	67380
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/11/2022 3:15:00 AM	67351
Surr: BFB	98.0	37.7-212		%Rec	1	5/11/2022 3:15:00 AM	67351
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **BRM**	
Benzene	ND	0.024		mg/Kg	1	5/12/2022 6:53:25 PM	67351
Toluene	ND	0.048		mg/Kg	1	5/12/2022 6:53:25 PM	67351
Ethylbenzene	ND	0.048		mg/Kg	1	5/12/2022 6:53:25 PM	67351
Xylenes, Total	ND	0.096		mg/Kg	1	5/12/2022 6:53:25 PM	67351
Surr: 1,2-Dichloroethane-d4	80.8	70-130		%Rec	1	5/12/2022 6:53:25 PM	67351
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	5/12/2022 6:53:25 PM	67351
Surr: Dibromofluoromethane	92.5	70-130		%Rec	1	5/12/2022 6:53:25 PM	67351
Surr: Toluene-d8	107	70-130		%Rec	1	5/12/2022 6:53:25 PM	67351

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205385**

27-May-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **MB-67404**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **67404**	RunNo: **87928**
Prep Date: **5/11/2022**	Analysis Date: **5/11/2022**	SeqNo: **3116886** Units: **mg/Kg**

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

Sample ID: **LCS-67404**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **67404**	RunNo: **87928**
Prep Date: **5/11/2022**	Analysis Date: **5/11/2022**	SeqNo: **3116887** Units: **mg/Kg**

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

Sample ID: **MB-67438**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **67438**	RunNo: **87937**
Prep Date: **5/12/2022**	Analysis Date: **5/12/2022**	SeqNo: **3118019** Units: **mg/Kg**

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

Sample ID: **LCS-67438**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **67438**	RunNo: **87937**
Prep Date: **5/12/2022**	Analysis Date: **5/12/2022**	SeqNo: **3118020** 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: **LCS-67428**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **67428**	RunNo: **87935**
Prep Date: **5/12/2022**	Analysis Date: **5/12/2022**	SeqNo: **3118246** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	90	110			

Sample ID: **MB-67428**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **67428**	RunNo: **87935**
Prep Date: **5/12/2022**	Analysis Date: **5/12/2022**	SeqNo: **3118247** Units: **mg/Kg**

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205385**

27-May-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **MB-67353**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67353**	RunNo: **87866**
Prep Date: **5/9/2022**	Analysis Date: **5/10/2022**	SeqNo: **3113305** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		101	51.1	141			

Sample ID: **LCS-67353**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67353**	RunNo: **87866**
Prep Date: **5/9/2022**	Analysis Date: **5/10/2022**	SeqNo: **3113306** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.6	68.9	135			
Surr: DNOP	4.7		5.000		93.8	51.1	141			

Sample ID: **MB-67327**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67327**	RunNo: **87866**
Prep Date: **5/6/2022**	Analysis Date: **5/10/2022**	SeqNo: **3115674** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		104	51.1	141			

Sample ID: **LCS-67327**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67327**	RunNo: **87866**
Prep Date: **5/6/2022**	Analysis Date: **5/10/2022**	SeqNo: **3115675** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		5.000		96.5	51.1	141			

Sample ID: **MB-67354**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67354**	RunNo: **87907**
Prep Date: **5/10/2022**	Analysis Date: **5/11/2022**	SeqNo: **3117387** 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		93.9	51.1	141			

Sample ID: **LCS-67354**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67354**	RunNo: **87907**
Prep Date: **5/10/2022**	Analysis Date: **5/11/2022**	SeqNo: **3117388** Units: **mg/Kg**

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205385**

27-May-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **LCS-67354** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **67354** RunNo: **87907**
Prep Date: **5/10/2022** Analysis Date: **5/11/2022** SeqNo: **3117388** 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	91.5	68.9	135			
Surr: DNOP	4.1		5.000		81.2	51.1	141			

Sample ID: **2205385-007AMS** SampType: **MS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BH-17** Batch ID: **67354** RunNo: **87907**
Prep Date: **5/10/2022** Analysis Date: **5/11/2022** SeqNo: **3117391** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	110	10	49.85	88.67	33.8	36.1	154			S
Surr: DNOP	4.3		4.985		86.3	51.1	141			

Sample ID: **2205385-007AMSD** SampType: **MSD** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BH-17** Batch ID: **67354** RunNo: **87907**
Prep Date: **5/10/2022** Analysis Date: **5/11/2022** SeqNo: **3117392** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	120	10	50.00	88.67	66.5	36.1	154	14.5	33.9	
Surr: DNOP	4.4		5.000		87.9	51.1	141	0	0	

Sample ID: **LCS-67380** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **67380** RunNo: **87951**
Prep Date: **5/10/2022** Analysis Date: **5/11/2022** SeqNo: **3117627** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.0	68.9	135			
Surr: DNOP	4.0		5.000		79.4	51.1	141			

Sample ID: **MB-67380** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **67380** RunNo: **87951**
Prep Date: **5/10/2022** Analysis Date: **5/11/2022** SeqNo: **3117629** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205385**

27-May-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **2205385-026AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SW-9**	Batch ID: **67380**	RunNo: **87975**
Prep Date: **5/10/2022**	Analysis Date: **5/13/2022**	SeqNo: **3119332** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	140	9.6	47.98	95.82	101	36.1	154			
Surr: DNOP	4.3		4.798		89.8	51.1	141			

Sample ID: **2205385-026AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SW-9**	Batch ID: **67380**	RunNo: **87975**
Prep Date: **5/10/2022**	Analysis Date: **5/13/2022**	SeqNo: **3119333** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	160	10	49.85	95.82	119	36.1	154	7.12	33.9	
Surr: DNOP	5.6		4.985		113	51.1	141	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205385**

27-May-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **mb-67343**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **67343**	RunNo: **87865**							
Prep Date: **5/9/2022**	Analysis Date: **5/10/2022**	SeqNo: **3114293**	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		99.2	37.7	212			

Sample ID: **lcs-67343**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **67343**	RunNo: **87865**							
Prep Date: **5/9/2022**	Analysis Date: **5/10/2022**	SeqNo: **3114294**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.0	72.3	137			
Surr: BFB	2100		1000		211	37.7	212			

Sample ID: **lcs-67350**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **67350**	RunNo: **87888**							
Prep Date: **5/9/2022**	Analysis Date: **5/10/2022**	SeqNo: **3114782**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	72.3	137			
Surr: BFB	2100		1000		210	37.7	212			

Sample ID: **mb-67350**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **67350**	RunNo: **87888**							
Prep Date: **5/9/2022**	Analysis Date: **5/10/2022**	SeqNo: **3114783**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		96.6	37.7	212			

Sample ID: **2205385-004ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **BH-14**	Batch ID: **67350**	RunNo: **87888**							
Prep Date: **5/9/2022**	Analysis Date: **5/10/2022**	SeqNo: **3114785**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.8	24.02	0	116	70	130			
Surr: BFB	2100		960.6		221	37.7	212			S

Sample ID: **2205385-004amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **BH-14**	Batch ID: **67350**	RunNo: **87888**							
Prep Date: **5/9/2022**	Analysis Date: **5/10/2022**	SeqNo: **3114786**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205385**

27-May-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **2205385-004amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BH-14** Batch ID: **67350** RunNo: **87888**
Prep Date: **5/9/2022** Analysis Date: **5/10/2022** SeqNo: **3114786** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.8	23.92	0	120	70	130	2.60	20	
Surr: BFB	2100		956.9		223	37.7	212	0	0	S

Sample ID: **lcs-67351** SampType: **LCS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS** Batch ID: **67351** RunNo: **87888**
Prep Date: **5/9/2022** Analysis Date: **5/10/2022** SeqNo: **3114806** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.3	137			
Surr: BFB	2100		1000		212	37.7	212			S

Sample ID: **mb-67351** SampType: **MBLK** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS** Batch ID: **67351** RunNo: **87888**
Prep Date: **5/9/2022** Analysis Date: **5/10/2022** SeqNo: **3114807** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	950		1000		94.7	37.7	212			

Sample ID: **2205385-024ams** SampType: **MS** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BH-25** Batch ID: **67351** RunNo: **87888**
Prep Date: **5/9/2022** Analysis Date: **5/10/2022** SeqNo: **3114809** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.8	24.02	0	126	70	130			
Surr: BFB	2200		960.6		232	37.7	212			S

Sample ID: **2205385-024amsd** SampType: **MSD** TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BH-25** Batch ID: **67351** RunNo: **87888**
Prep Date: **5/9/2022** Analysis Date: **5/10/2022** SeqNo: **3114810** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.8	24.04	0	113	70	130	10.6	20	
Surr: BFB	2200		961.5		227	37.7	212	0	0	S

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205385**

27-May-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **mb-67343**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **67343**	RunNo: **87865**
Prep Date: **5/9/2022**	Analysis Date: **5/10/2022**	SeqNo: **3114333** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	70	130			

Sample ID: **LCS-67343**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **67343**	RunNo: **87865**
Prep Date: **5/9/2022**	Analysis Date: **5/10/2022**	SeqNo: **3114334** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	84.1	80	120			
Toluene	0.89	0.050	1.000	0	89.4	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.2	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: **lcs-67350**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **67350**	RunNo: **87888**
Prep Date: **5/9/2022**	Analysis Date: **5/10/2022**	SeqNo: **3114824** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.3	80	120			
Toluene	0.90	0.050	1.000	0	89.9	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.0	80	120			
Surr: 4-Bromofluorobenzene	0.80		1.000		80.0	70	130			

Sample ID: **mb-67350**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **67350**	RunNo: **87888**
Prep Date: **5/9/2022**	Analysis Date: **5/10/2022**	SeqNo: **3114825** 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	0.79		1.000		78.9	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 interference
B	Analyte detected in the associated Method Blank
E	Estimated value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205385**

27-May-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **2205385-005ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BH-15**	Batch ID: **67350**	RunNo: **87906**
Prep Date: **5/9/2022**	Analysis Date: **5/11/2022**	SeqNo: **3116503** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.78	0.12	0.9524	0	82.1	68.8	120			
Toluene	0.82	0.24	0.9524	0	85.7	73.6	124			
Ethylbenzene	0.97	0.24	0.9524	0.09053	91.9	72.7	129			
Xylenes, Total	2.7	0.48	2.857	0	92.9	75.7	126			
Surr: 4-Bromofluorobenzene	5.6		4.762		118	70	130			

Sample ID: **2205385-005amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BH-15**	Batch ID: **67350**	RunNo: **87906**
Prep Date: **5/9/2022**	Analysis Date: **5/11/2022**	SeqNo: **3116504** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.78	0.12	0.9470	0	82.3	68.8	120	0.424	20	
Toluene	0.80	0.24	0.9470	0	84.4	73.6	124	2.09	20	
Ethylbenzene	0.94	0.24	0.9470	0.09053	89.7	72.7	129	2.67	20	
Xylenes, Total	2.6	0.47	2.841	0	91.0	75.7	126	2.60	20	
Surr: 4-Bromofluorobenzene	5.6		4.735		119	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205385**

27-May-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **2205385-025ams**	SampType: **MS4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BH-26**	Batch ID: **67351**	RunNo: **87959**
Prep Date: **5/9/2022**	Analysis Date: **5/12/2022**	SeqNo: **3117688** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	0.9862	0	85.9	63.5	137			
Toluene	1.1	0.049	0.9862	0	110	77.6	127			
Ethylbenzene	1.1	0.049	0.9862	0	114	77.9	129			
Xylenes, Total	3.5	0.099	2.959	0	117	76.8	127			
Surr: 1,2-Dichloroethane-d4	0.39		0.4931		79.0	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.4931		94.6	70	130			
Surr: Dibromofluoromethane	0.43		0.4931		87.6	70	130			
Surr: Toluene-d8	0.52		0.4931		106	70	130			

Sample ID: **2205385-025amsd**	SampType: **MSD4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BH-26**	Batch ID: **67351**	RunNo: **87959**
Prep Date: **5/9/2022**	Analysis Date: **5/12/2022**	SeqNo: **3117690** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.025	0.9872	0	82.6	63.5	137	3.76	20	
Toluene	1.0	0.049	0.9872	0	103	77.6	127	6.34	20	
Ethylbenzene	1.0	0.049	0.9872	0	103	77.9	129	9.98	20	
Xylenes, Total	3.1	0.099	2.962	0	106	76.8	127	9.91	20	
Surr: 1,2-Dichloroethane-d4	0.38		0.4936		77.4	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.48		0.4936		96.9	70	130	0	0	
Surr: Dibromofluoromethane	0.45		0.4936		90.7	70	130	0	0	
Surr: Toluene-d8	0.54		0.4936		110	70	130	0	0	

Sample ID: **lcs-67351**	SampType: **LCS4**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **BatchQC**	Batch ID: **67351**	RunNo: **87959**
Prep Date: **5/9/2022**	Analysis Date: **5/12/2022**	SeqNo: **3117703** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.1	80	120			
Toluene	1.0	0.050	1.000	0	105	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.1	0.10	3.000	0	105	80	120			
Surr: 1,2-Dichloroethane-d4	0.43		0.5000		86.1	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.8	70	130			
Surr: Dibromofluoromethane	0.45		0.5000		89.4	70	130			
Surr: Toluene-d8	0.51		0.5000		102	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205385**

27-May-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **mb-67351**	SampType: **MBLK**	TestCode: **EPA Method 8260B: Volatiles Short List**
Client ID: **PBS**	Batch ID: **67351**	RunNo: **87959**
Prep Date: **5/9/2022**	Analysis Date: **5/12/2022**	SeqNo: **3117704** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.36		0.5000		71.6	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.4	70	130			
Surr: Dibromofluoromethane	0.43		0.5000		86.3	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: GHD Midland Work Order Number: 2205385 RcptNo: 1

Received By: **Cheyenne Cason** 5/7/2022 7:50:00 AM

Completed By: **Cheyenne Cason** 5/7/2022 8:27:12 AM

Reviewed By: JA 5/9/22

Chain of Custody

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

Log In

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

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

Adjusted? _____

Checked by: CMC 5/7/22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.9	Good	Not Present			

Chain-of-Custody Record

Client: GHD

Mailing Address:

324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

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

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other_____

☐ EDD (Type) _____

Turn-Around Time:

☑ Standard ☐ Rush 5-day

Project Name: Federal BQ Battery

Project #: 12563440

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 1

Cooler Temp(Including CF): 4.9 -0.1 = 4.8

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. 2205385	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
050522	0800	S	BH-11	Jar		001	✓	✓									✓
	0805		BH-12			002											
	0810		BH-13			003											
	0815		BH-14			004											
	0820		BH-15			005											
	0900		BH-16			006											
	0905		BH-17			007											
	0910		BH-18			008											
	0915		BH-19			009											
	0920		BH-20			010											
	1000		SW-3			011											
	1005		SW-4			012	✓	✓								✓	✓

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
05/6/22	0800	Zach Comino			5/6/22	800
5/6/22	1900		CMC Courier		5/7/22	0750

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com; Amber_Griffin@eogresources.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

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

Client: GHD

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

Phone #: (505)377-4218

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

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☒ Rush 5 day

Project Name: Federal BQ B #1H

Project #: 12563446

Project Manager:
Becky Haskell
Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 4.8-4.9-0.1 = 4.8 CMC 5/7/22

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2205385	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
050522	1010	S	SW-5	Tar		013	X	X									X
	1015		SW-6			014											
	1020		SW-7			015											
	1300		SW-8			016											
	1310		BH-21			017											
	1315		SBH-1			018											
	1320		SSW-1			019											
	1325		SSW-2			020											
	1370		BH-22			021											
	1335		BH-23			022											
	1240		BH-24			023											
	1345		BH-25			024											

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
050622	0800	2nd Comm.	Courier		5/6/22	800
5/6/22	1900	Courier	CMC Courier		5/7/22	0750

Analysis Request

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com; Amber_Griffin@eogresources.com: Along with Becky Haskell listed above.
~~Direct Bill to EOG Chase Settle~~

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

Chain-of-Custody Record

Client: GHD

Mailing Address:

324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

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

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☒ Rush 5-dy

Project Name: Federal BO Battery

Project #: 12563440

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 4.9-0.1=4.8

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. 2205385	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
05/25/22	1350	S	BH-26	Jar		~~025~~ 025	X	X									X
	1355		SW-9			026											
	1400		SW-10			027											
	1410		SW-11			028											
	1415		SW-12			029											
	1420		SW-13			030											
	1425		SW-14			031											
	1430		SW-15			032											
	1435		BH-27			033											
	1440		BH-28			034											
	1445		BH-29			035											
	1450		BH-30			036											

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
05/26/22	0800	Zach Comino				
5/6/22	1900				5/6/22	900
			emc courier		5/7/22	0750

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com; Amber_Griffin@eogresources.com: Along with Becky Haskell listed above.

~~Direct Bill to EOG Chase Settle~~

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

Chain-of-Custody Record

Client: GHD

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

Phone #: (505)377-4218

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

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

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

Project Name: Federal BQ Battery

Project #: 125C3440

Project Manager:
Becky Haskell
Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 4.9-0.1=4.8

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. 2205385	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
050522	1455	S	BH-31	Jar		037	X	X									X
1	1500	1	BH-32	1		038	X	X									X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
050622	0800	Zach Comino			5/6/22	800
5/6/22	1900		CMC Courier		5/7/22	0760

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com; Amber_Griffin@eogresources.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: www.hallenvironmental.com

June 08, 2022

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

RE: Federal BQ Battery OrderNo.: 2205A88

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 9 sample(s) on 5/25/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued June 02, 2022.

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. 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. All samples are reported as received unless otherwise indicated.

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 **2205A88**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** SW-1A
Project: Federal BQ Battery **Collection Date:** 5/23/2022 1:45:00 PM
Lab ID: 2205A88-001 **Matrix:** MEOH (SOIL) **Received Date:** 5/25/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	60		mg/Kg	20	5/25/2022 10:44:15 PM	67684
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	21	9.6		mg/Kg	1	5/26/2022 11:03:31 AM	67679
Motor Oil Range Organics (MRO)	85	48		mg/Kg	1	5/26/2022 11:03:31 AM	67679
Surr: DNOP	82.6	51.1-141		%Rec	1	5/26/2022 11:03:31 AM	67679
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	5/25/2022 4:53:37 PM	G88270
Surr: BFB	94.1	37.7-212		%Rec	1	5/25/2022 4:53:37 PM	G88270
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	5/25/2022 4:53:37 PM	R88270
Toluene	ND	0.038		mg/Kg	1	5/25/2022 4:53:37 PM	R88270
Ethylbenzene	ND	0.038		mg/Kg	1	5/25/2022 4:53:37 PM	R88270
Xylenes, Total	ND	0.077		mg/Kg	1	5/25/2022 4:53:37 PM	R88270
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	5/25/2022 4:53:37 PM	R88270

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

Qualifiers:

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

Analytical Report
Lab Order **2205A88**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** SW-5A
Project: Federal BQ Battery **Collection Date:** 5/23/2022 1:50:00 PM
Lab ID: 2205A88-002 **Matrix:** MEOH (SOIL) **Received Date:** 5/25/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	60		mg/Kg	20	5/25/2022 10:56:40 PM	67684
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/25/2022 5:56:35 PM	67679
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/25/2022 5:56:35 PM	67679
Surr: DNOP	79.4	51.1-141		%Rec	1	5/25/2022 5:56:35 PM	67679
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.1		mg/Kg	1	5/25/2022 5:17:04 PM	G88270
Surr: BFB	92.9	37.7-212		%Rec	1	5/25/2022 5:17:04 PM	G88270
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	5/25/2022 5:17:04 PM	R88270
Toluene	ND	0.051		mg/Kg	1	5/25/2022 5:17:04 PM	R88270
Ethylbenzene	ND	0.051		mg/Kg	1	5/25/2022 5:17:04 PM	R88270
Xylenes, Total	ND	0.10		mg/Kg	1	5/25/2022 5:17:04 PM	R88270
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	5/25/2022 5:17:04 PM	R88270

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

Qualifiers:

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

Analytical Report
Lab Order **2205A88**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** SW-12A
Project: Federal BQ Battery **Collection Date:** 5/23/2022 1:55:00 PM
Lab ID: 2205A88-003 **Matrix:** MEOH (SOIL) **Received Date:** 5/25/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	ND	59		mg/Kg	20	5/25/2022 11:33:53 PM	67684
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	20	9.6		mg/Kg	1	5/26/2022 11:27:30 AM	67679
Motor Oil Range Organics (MRO)	72	48		mg/Kg	1	5/26/2022 11:27:30 AM	67679
Surr: DNOP	96.1	51.1-141		%Rec	1	5/26/2022 11:27:30 AM	67679
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	5/25/2022 5:40:32 PM	G88270
Surr: BFB	90.8	37.7-212		%Rec	1	5/25/2022 5:40:32 PM	G88270
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.021		mg/Kg	1	5/25/2022 5:40:32 PM	R88270
Toluene	ND	0.041		mg/Kg	1	5/25/2022 5:40:32 PM	R88270
Ethylbenzene	ND	0.041		mg/Kg	1	5/25/2022 5:40:32 PM	R88270
Xylenes, Total	ND	0.082		mg/Kg	1	5/25/2022 5:40:32 PM	R88270
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	5/25/2022 5:40:32 PM	R88270

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

Qualifiers:

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

Analytical Report
Lab Order **2205A88**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** BH-11A
Project: Federal BQ Battery **Collection Date:** 5/23/2022 2:00:00 PM
Lab ID: 2205A88-004 **Matrix:** MEOH (SOIL) **Received Date:** 5/25/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	1300	60		mg/Kg	20	5/25/2022 11:46:17 PM	67684
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	48	9.5		mg/Kg	1	5/25/2022 6:45:29 PM	67679
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/25/2022 6:45:29 PM	67679
Surr: DNOP	84.6	51.1-141		%Rec	1	5/25/2022 6:45:29 PM	67679
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	5/25/2022 6:04:05 PM	G88270
Surr: BFB	92.9	37.7-212		%Rec	1	5/25/2022 6:04:05 PM	G88270
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.019		mg/Kg	1	5/25/2022 6:04:05 PM	R88270
Toluene	ND	0.037		mg/Kg	1	5/25/2022 6:04:05 PM	R88270
Ethylbenzene	ND	0.037		mg/Kg	1	5/25/2022 6:04:05 PM	R88270
Xylenes, Total	ND	0.074		mg/Kg	1	5/25/2022 6:04:05 PM	R88270
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	5/25/2022 6:04:05 PM	R88270

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

Qualifiers:

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

Analytical Report
Lab Order **2205A88**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** BH-16A
Project: Federal BQ Battery **Collection Date:** 5/23/2022 2:05:00 PM
Lab ID: 2205A88-005 **Matrix:** MEOH (SOIL) **Received Date:** 5/25/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**LRN**
Chloride	1700	60		mg/Kg	20	5/25/2022 11:58:42 PM	67684
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	56	9.4		mg/Kg	1	5/25/2022 7:09:54 PM	67679
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/25/2022 7:09:54 PM	67679
Surr: DNOP	92.3	51.1-141		%Rec	1	5/25/2022 7:09:54 PM	67679
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	5/25/2022 6:27:31 PM	G88270
Surr: BFB	89.8	37.7-212		%Rec	1	5/25/2022 6:27:31 PM	G88270
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.019		mg/Kg	1	5/25/2022 6:27:31 PM	R88270
Toluene	ND	0.038		mg/Kg	1	5/25/2022 6:27:31 PM	R88270
Ethylbenzene	ND	0.038		mg/Kg	1	5/25/2022 6:27:31 PM	R88270
Xylenes, Total	ND	0.075		mg/Kg	1	5/25/2022 6:27:31 PM	R88270
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	5/25/2022 6:27:31 PM	R88270

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

Qualifiers:

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

Analytical Report
Lab Order **2205A88**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** BH-15A
Project: Federal BQ Battery **Collection Date:** 5/23/2022 2:10:00 PM
Lab ID: 2205A88-006 **Matrix:** MEOH (SOIL) **Received Date:** 5/25/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LRN**	
Chloride	390	61		mg/Kg	20	5/26/2022 12:11:06 AM	67684
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	700	9.7		mg/Kg	1	5/26/2022 11:51:45 AM	67679
Motor Oil Range Organics (MRO)	440	48		mg/Kg	1	5/26/2022 11:51:45 AM	67679
Surr: DNOP	102	51.1-141		%Rec	1	5/26/2022 11:51:45 AM	67679
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	5/25/2022 6:50:55 PM	G88270
Surr: BFB	91.0	37.7-212		%Rec	1	5/25/2022 6:50:55 PM	G88270
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	5/25/2022 6:50:55 PM	R88270
Toluene	ND	0.039		mg/Kg	1	5/25/2022 6:50:55 PM	R88270
Ethylbenzene	ND	0.039		mg/Kg	1	5/25/2022 6:50:55 PM	R88270
Xylenes, Total	ND	0.078		mg/Kg	1	5/25/2022 6:50:55 PM	R88270
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	5/25/2022 6:50:55 PM	R88270

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

Qualifiers:

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

Analytical Report
Lab Order **2205A88**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** SW-3A
Project: Federal BQ Battery **Collection Date:** 5/23/2022 2:15:00 PM
Lab ID: 2205A88-007 **Matrix:** MEOH (SOIL) **Received Date:** 5/25/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	6000	300		mg/Kg	100	5/26/2022 10:24:18 AM	67684
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	93	9.6		mg/Kg	1	5/25/2022 7:58:39 PM	67679
Motor Oil Range Organics (MRO)	68	48		mg/Kg	1	5/25/2022 7:58:39 PM	67679
Surr: DNOP	98.5	51.1-141		%Rec	1	5/25/2022 7:58:39 PM	67679
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	5/25/2022 8:01:14 PM	G88270
Surr: BFB	90.2	37.7-212		%Rec	1	5/25/2022 8:01:14 PM	G88270
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	5/25/2022 8:01:14 PM	R88270
Toluene	ND	0.039		mg/Kg	1	5/25/2022 8:01:14 PM	R88270
Ethylbenzene	ND	0.039		mg/Kg	1	5/25/2022 8:01:14 PM	R88270
Xylenes, Total	ND	0.078		mg/Kg	1	5/25/2022 8:01:14 PM	R88270
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	5/25/2022 8:01:14 PM	R88270

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

Qualifiers:

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

Analytical Report
Lab Order **2205A88**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** BH-24A
Project: Federal BQ Battery **Collection Date:** 5/23/2022 2:20:00 PM
Lab ID: 2205A88-008 **Matrix:** MEOH (SOIL) **Received Date:** 5/25/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	1400	60		mg/Kg	20	5/25/2022 4:49:26 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	140	9.8		mg/Kg	1	5/25/2022 9:35:39 PM	67678
Motor Oil Range Organics (MRO)	79	49		mg/Kg	1	5/25/2022 9:35:39 PM	67678
Surr: DNOP	101	51.1-141		%Rec	1	5/25/2022 9:35:39 PM	67678
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	5/25/2022 9:58:45 PM	67661
Surr: BFB	97.5	37.7-212		%Rec	1	5/25/2022 9:58:45 PM	67661
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.020		mg/Kg	1	5/25/2022 9:58:45 PM	67661
Toluene	ND	0.039		mg/Kg	1	5/25/2022 9:58:45 PM	67661
Ethylbenzene	ND	0.039		mg/Kg	1	5/25/2022 9:58:45 PM	67661
Xylenes, Total	ND	0.079		mg/Kg	1	5/25/2022 9:58:45 PM	67661
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	5/25/2022 9:58:45 PM	67661

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

Qualifiers:

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

Analytical Report
Lab Order **2205A88**
Date Reported: **6/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland **Client Sample ID:** SW-14
Project: Federal BQ Battery **Collection Date:** 5/23/2022 2:25:00 PM
Lab ID: 2205A88-009 **Matrix:** MEOH (SOIL) **Received Date:** 5/25/2022 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **NAI**	
Chloride	510	61		mg/Kg	20	5/25/2022 5:01:47 PM	67690
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **ED**	
Diesel Range Organics (DRO)	210	9.4		mg/Kg	1	5/26/2022 12:40:01 PM	67678
Motor Oil Range Organics (MRO)	190	47		mg/Kg	1	5/26/2022 12:40:01 PM	67678
Surr: DNOP	88.4	51.1-141		%Rec	1	5/26/2022 12:40:01 PM	67678
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	5/25/2022 10:22:27 PM	67661
Surr: BFB	93.3	37.7-212		%Rec	1	5/25/2022 10:22:27 PM	67661
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	5/25/2022 10:22:27 PM	67661
Toluene	ND	0.038		mg/Kg	1	5/25/2022 10:22:27 PM	67661
Ethylbenzene	ND	0.038		mg/Kg	1	5/25/2022 10:22:27 PM	67661
Xylenes, Total	ND	0.075		mg/Kg	1	5/25/2022 10:22:27 PM	67661
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	5/25/2022 10:22:27 PM	67661

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205A88**

08-Jun-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **MB-67684**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **67684**	RunNo: **88280**							
Prep Date: **5/25/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130699**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-67684**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **67684**	RunNo: **88280**							
Prep Date: **5/25/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130700**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.5	90	110			

Sample ID: **MB-67690**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **67690**	RunNo: **88285**							
Prep Date: **5/25/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130981**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-67690**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **67690**	RunNo: **88285**							
Prep Date: **5/25/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130982**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.1	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205A88**

08-Jun-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **MB-67679**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67679**	RunNo: **88246**
Prep Date: **5/25/2022**	Analysis Date: **5/25/2022**	SeqNo: **3129579** 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		91.8	51.1	141			

Sample ID: **LCS-67679**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67679**	RunNo: **88246**
Prep Date: **5/25/2022**	Analysis Date: **5/25/2022**	SeqNo: **3129580** 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	98.7	64.4	127			
Surr: DNOP	4.5		5.000		89.9	51.1	141			

Sample ID: **MB-67678**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67678**	RunNo: **88246**
Prep Date: **5/25/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130799** 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	9.1		10.00		90.6	51.1	141			

Sample ID: **LCS-67678**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67678**	RunNo: **88246**
Prep Date: **5/25/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130800** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.4	64.4	127			
Surr: DNOP	4.4		5.000		87.5	51.1	141			

Sample ID: **2205A88-008AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BH-24A**	Batch ID: **67678**	RunNo: **88246**
Prep Date: **5/25/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130802** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	240	9.9	49.50	143.0	193	36.1	154			S
Surr: DNOP	5.0		4.950		101	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205A88**

08-Jun-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **2205A88-008AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **BH-24A**	Batch ID: **67678**	RunNo: **88246**
Prep Date: **5/25/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130803** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	200	9.7	48.73	143.0	109	36.1	154	19.5	33.9	
Surr: DNOP	4.7		4.873		96.0	51.1	141	0	0	

Sample ID: **MB-67753**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67753**	RunNo: **88321**
Prep Date: **5/27/2022**	Analysis Date: **5/27/2022**	SeqNo: **3132400** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.9		10.00		88.7	51.1	141			

Sample ID: **LCS-67753**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67753**	RunNo: **88321**
Prep Date: **5/27/2022**	Analysis Date: **5/27/2022**	SeqNo: **3132402** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		5.000		77.8	51.1	141			

Sample ID: **2205A88-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SW-1A**	Batch ID: **67753**	RunNo: **88321**
Prep Date: **5/27/2022**	Analysis Date: **5/27/2022**	SeqNo: **3133048** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.6		4.776		75.6	51.1	141			

Sample ID: **2205A88-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SW-1A**	Batch ID: **67753**	RunNo: **88321**
Prep Date: **5/27/2022**	Analysis Date: **5/27/2022**	SeqNo: **3133049** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.2		4.864		65.9	51.1	141	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205A88**

08-Jun-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **G88270**	RunNo: **88270**							
Prep Date:	Analysis Date: **5/25/2022**	SeqNo: **3130051**	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	980		1000		98.4	37.7	212			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **G88270**	RunNo: **88270**							
Prep Date:	Analysis Date: **5/25/2022**	SeqNo: **3130052**	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	109	72.3	137			
Surr: BFB	2100		1000		210	37.7	212			

Sample ID: **mb-67661**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **67661**	RunNo: **88270**							
Prep Date: **5/24/2022**	Analysis Date: **5/26/2022**	SeqNo: **3130075**	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		90.3	37.7	212			

Sample ID: **lcs-67661**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **67661**	RunNo: **88270**							
Prep Date: **5/24/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130076**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	111	72.3	137			
Surr: BFB	2100		1000		205	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205A88**

08-Jun-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R88270**	RunNo: **88270**
Prep Date:	Analysis Date: **5/25/2022**	SeqNo: **3130099** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.0	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R88270**	RunNo: **88270**
Prep Date:	Analysis Date: **5/25/2022**	SeqNo: **3130100** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.1	80	120			
Toluene	0.99	0.050	1.000	0	98.5	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: **mb-67661**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **67661**	RunNo: **88270**
Prep Date: **5/24/2022**	Analysis Date: **5/26/2022**	SeqNo: **3130123** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		96.4	70	130			

Sample ID: **LCS-67661**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **67661**	RunNo: **88270**
Prep Date: **5/24/2022**	Analysis Date: **5/25/2022**	SeqNo: **3130124** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.9	80	120			
Toluene	0.94	0.050	1.000	0	94.1	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.7	80	120			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.3	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: GHD Midland | Work Order Number: 2205A88 | RcptNo: 1

Received By: Juan Rojas 5/25/2022 7:15:00 AM

Completed By: Cheyenne Cason 5/25/2022 8:12:22 AM

Reviewed By: 5-25-22

Chain of Custody

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

Log In

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

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

Adjusted? _____

Checked by: JN 5-25-22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Not Present			
2	0.3	Good	Not Present			

Chain-of-Custody Record

Client: GHD

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

Phone #: (505)377-4218

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

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush 24-hour

Project Name: Federal BQ Battery

Project #: 12563440

Project Manager: Becky Haskell, Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

# of Coolers: 2

Cooler Temp (Including CF): 2.3-0=2.3

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2205A88	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
052322	1345	S	SW-1A	Jar		001	X	X									X
	1350		SW-5A			002											
	1355		SW-12A			003											
	1400		BH-11A			004											
	1405		BH-16A			005											
	1410		BH-15A			006											
	1415		SW-3A			007											
	1420		~~SW-24A~~ BH-24A			008											
	1425		SW-14			009											

Date	Time	Relinquished by	Received by	Via	Date	Time
052422	0800	Zach Comino				
5/24/22	1900				5/25/22	7:15

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com; Amber_Griffin@eogresources.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: www.hallenvironmental.com

June 09, 2022

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

RE: Federal BQ Battery OrderNo.: 2206237

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/4/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2206237**
Date Reported: **6/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland
Client Sample ID: SW-1B
Project: Federal BQ Battery
Collection Date: 6/3/2022 8:00:00 AM
Lab ID: 2206237-001 **Matrix:** SOIL **Received Date:** 6/4/2022 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	**CAS**
Chloride	ND	60		mg/Kg	20	6/6/2022 11:32:32 AM	67911
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst:	**ED**
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/6/2022 11:39:07 AM	67906
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/6/2022 11:39:07 AM	67906
Surr: DNOP	98.3	51.1-141		%Rec	1	6/6/2022 11:39:07 AM	67906
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	6/6/2022 9:09:16 AM	G88491
Surr: BFB	97.2	37.7-212		%Rec	1	6/6/2022 9:09:16 AM	G88491
EPA METHOD 8021B: VOLATILES						Analyst:	**NSB**
Benzene	ND	0.016		mg/Kg	1	6/6/2022 9:09:16 AM	B88491
Toluene	ND	0.033		mg/Kg	1	6/6/2022 9:09:16 AM	B88491
Ethylbenzene	ND	0.033		mg/Kg	1	6/6/2022 9:09:16 AM	B88491
Xylenes, Total	ND	0.066		mg/Kg	1	6/6/2022 9:09:16 AM	B88491
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	6/6/2022 9:09:16 AM	B88491

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206237**

09-Jun-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **MB-67911**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **67911**	RunNo: **88498**
Prep Date: **6/6/2022**	Analysis Date: **6/6/2022**	SeqNo: **3141289** Units: **mg/Kg**

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

Sample ID: **LCS-67911**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **67911**	RunNo: **88498**
Prep Date: **6/6/2022**	Analysis Date: **6/6/2022**	SeqNo: **3141290** Units: **mg/Kg**

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206237**

09-Jun-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **MB-67906**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **67906**	RunNo: **88501**
Prep Date: **6/6/2022**	Analysis Date: **6/6/2022**	SeqNo: **3139962** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		96.9	51.1	141			

Sample ID: **LCS-67906**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **67906**	RunNo: **88501**
Prep Date: **6/6/2022**	Analysis Date: **6/6/2022**	SeqNo: **3139963** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	110	10	100.0	0	111	64.4	127			
Surr: DNOP	10		10.00		102	51.1	141			

Sample ID: **2206237-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SW-1B**	Batch ID: **67906**	RunNo: **88501**
Prep Date: **6/6/2022**	Analysis Date: **6/6/2022**	SeqNo: **3139969** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	110	9.6	96.15	0	115	36.1	154			
Surr: DNOP	11		9.615		114	51.1	141			

Sample ID: **2206237-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SW-1B**	Batch ID: **67906**	RunNo: **88501**
Prep Date: **6/6/2022**	Analysis Date: **6/6/2022**	SeqNo: **3139970** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	110	9.4	93.63	0	117	36.1	154	1.11	33.9	
Surr: DNOP	11		9.363		115	51.1	141	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206237**

09-Jun-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **PBS**	Batch ID: **G88491**	RunNo: **88491**							
Prep Date:	Analysis Date: **6/6/2022**	SeqNo: **3140241**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		94.4	37.7	212			

Sample ID: **2.5ug gro lcs**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **LCSS**	Batch ID: **G88491**	RunNo: **88491**							
Prep Date:	Analysis Date: **6/6/2022**	SeqNo: **3140242**	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	72.3	137			
Surr: BFB	2100		1000		211	37.7	212			

Sample ID: **2206237-001ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **SW-1B**	Batch ID: **G88491**	RunNo: **88491**							
Prep Date:	Analysis Date: **6/6/2022**	SeqNo: **3140247**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	3.3	16.48	0	109	70	130			
Surr: BFB	1400		659.2		210	37.7	212			

Sample ID: **2206237-001amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**							
Client ID: **SW-1B**	Batch ID: **G88491**	RunNo: **88491**							
Prep Date:	Analysis Date: **6/6/2022**	SeqNo: **3140248**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	3.3	16.48	0	111	70	130	1.99	20	
Surr: BFB	1400		659.2		215	37.7	212	0	0	S

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206237**

09-Jun-22

Client: GHD Midland

Project: Federal BQ Battery

Sample ID: **mb**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B88491**	RunNo: **88491**
Prep Date:	Analysis Date: **6/6/2022**	SeqNo: **3140278** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.7	70	130			

Sample ID: **100ng btex lcs**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B88491**	RunNo: **88491**
Prep Date:	Analysis Date: **6/6/2022**	SeqNo: **3140279** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.5	80	120			
Toluene	0.96	0.050	1.000	0	96.1	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: GHD Midland | Work Order Number: 2206237 | RcptNo: 1

Received By: Tracy Casarrubias 6/4/2022 9:55:00 AM

Completed By: Tracy Casarrubias 6/4/2022 11:37:02 AM

Reviewed By: TC 6/4/22

Chain of Custody

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

Log In

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

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

Adjusted?

Checked by: TML 6/4/22

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.9	Good	Yes			

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 Same Day

Project Name:

Federal BQ Battery

Project #:

12563440

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 5.9 - 0 = 5.9

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	Chloride Method 300
06032022	0800	S	SW-1B	Jar		001	X	X									X

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time
06032022	0900	Zach Comino			6/3/22	900
6/3/22	1900					
					6/9/22	9:55

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com; Amber_Griffin@eogresources.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: www.hallenvironmental.com

June 15, 2022

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

RE: Federal BQ Battery OrderNo.: 2206702

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/14/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com 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 **2206702**
Date Reported: **6/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD **Client Sample ID:** SW-7A
Project: Federal BQ Battery **Collection Date:** 6/10/2022 8:00:00 AM
Lab ID: 2206702-001 **Matrix:** MEOH (SOIL) **Received Date:** 6/14/2022 7:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JMT**	
Chloride	ND	60		mg/Kg	20	6/14/2022 12:40:08 PM	68102
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**	
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/14/2022 11:05:10 AM	68091
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/14/2022 11:05:10 AM	68091
Surr: DNOP	88.6	51.1-141		%Rec	1	6/14/2022 11:05:10 AM	68091
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **BRM**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	6/14/2022 10:44:41 AM	68079
Surr: BFB	90.1	37.7-212		%Rec	1	6/14/2022 10:44:41 AM	68079
EPA METHOD 8021B: VOLATILES						Analyst: **BRM**	
Benzene	ND	0.017		mg/Kg	1	6/14/2022 10:44:41 AM	68079
Toluene	ND	0.035		mg/Kg	1	6/14/2022 10:44:41 AM	68079
Ethylbenzene	ND	0.035		mg/Kg	1	6/14/2022 10:44:41 AM	68079
Xylenes, Total	ND	0.069		mg/Kg	1	6/14/2022 10:44:41 AM	68079
Surr: 4-Bromofluorobenzene	90.3	70-130		%Rec	1	6/14/2022 10:44:41 AM	68079

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206702**

15-Jun-22

Client: GHD

Project: Federal BQ Battery

Sample ID: **MB-68102**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **68102**	RunNo: **88714**
Prep Date: **6/14/2022**	Analysis Date: **6/14/2022**	SeqNo: **3150715** Units: **mg/Kg**

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

Sample ID: **LCS-68102**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **68102**	RunNo: **88714**
Prep Date: **6/14/2022**	Analysis Date: **6/14/2022**	SeqNo: **3150716** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.9	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206702**

15-Jun-22

Client: GHD

Project: Federal BQ Battery

Sample ID: **LCS-68091**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **68091**	RunNo: **88701**
Prep Date: **6/14/2022**	Analysis Date: **6/14/2022**	SeqNo: **3149502** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	50.00	0	98.0	64.4	127			
Surr: DNOP	4.8		5.000		95.9	51.1	141			

Sample ID: **MB-68091**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **68091**	RunNo: **88701**
Prep Date: **6/14/2022**	Analysis Date: **6/14/2022**	SeqNo: **3149503** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		93.2	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206702**

15-Jun-22

Client: GHD

Project: Federal BQ Battery

Sample ID: **lcs-68079**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **68079**	RunNo: **88705**
Prep Date: **6/13/2022**	Analysis Date: **6/14/2022**	SeqNo: **3149489** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	72.3	137			
Surr: BFB	2100		1000		207	37.7	212			

Sample ID: **mb-68079**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **68079**	RunNo: **88705**
Prep Date: **6/13/2022**	Analysis Date: **6/14/2022**	SeqNo: **3149490** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		91.2	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2206702**

15-Jun-22

Client: GHD

Project: Federal BQ Battery

Sample ID: **LCS-68079**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **68079**	RunNo: **88705**
Prep Date: **6/13/2022**	Analysis Date: **6/14/2022**	SeqNo: **3149505** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.0	80	120			
Toluene	0.91	0.050	1.000	0	91.2	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	91.9	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.0	70	130			

Sample ID: **mb-68079**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **68079**	RunNo: **88705**
Prep Date: **6/13/2022**	Analysis Date: **6/14/2022**	SeqNo: **3149506** 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	0.90		1.000		90.2	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: GHD | Work Order Number: 2206702 | RcptNo: 1

Received By: Juan Rojas 6/14/2022 7:05:00 AM

Completed By: Sean Livingston 6/14/2022 8:14:28 AM

Reviewed By: KPG 6.14.22

Chain of Custody

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

Log In

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

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

Adjusted? _____

Checked by: JN 6/14/22

Special Handling (if applicable)

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

Person Notified: _____ Date: _____

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

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	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 Same Day

Project Name:

Federal BQ Battery

Project #:

125C3940

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: X Yes ☐ No

# of Coolers: 1

Cooler Temp(Including CF): 0.9-0.2=0.7

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2206707	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
6/10/22	0800	S	SW-7A	Jar		001	X	X									X

Relinquished by:	Received by:	Via:	Date	Time
Zach Comino			6/13/22	800
		Courier	6/14/22	7:05

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com Matthew.Laughlin@ghd.com; Amber_Griffin@eogresources.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.

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 118378

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	7377
	Action Number: 118378
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	6/30/2022