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

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
Page 4

State of New Mexico
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: _____

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

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

Our ref: 12563440

March 16, 2022

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

Re: Site Characterization and Remediation Work Plan
Federal BQ Battery Release Site
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 Characterization and Remediation Work Plan to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of delineation, sampling, and analyses that was conducted in the affected area at the EOG Federal BQ Battery Release Site (Site). In addition, this Report presents a Work Plan for remediation of affected soils identified at the 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 Figure 2, Site Assessment: Soil Analytical Results Map.

2. Background Information

A C-141, Release Notification, for this release was submitted to the NMOCD on 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 go ahead and file a C-141 for this suspect release location.

The release falls under the jurisdiction of the NMOCD District 2 Office in Artesia, New Mexico. The NMOCD assigned the release with Incident Number nAPP2127156622. The Release Notification, Site

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

3. Groundwater and Site Characterization

GHD characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, 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) ft bgs 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 ft bgs 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 and closure criteria are listed below:

General Site Characterization and Groundwater:

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

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

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

4. Initial Soil Delineation Assessment Summary and Findings

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 bgs. All soil samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300 by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico.

One (1) of the fifteen (15) test pits had samples exceeding applicable NMAC Table I Closure Criteria for groundwater greater than one hundred (100) feet: TP4-2, TP4-6, TP4-17, and TP4-20. 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 C.

On January 4, 2022, GHD and White Drilling Co. installed a soil boring SB-1 to eighty (80) feet bgs 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 bgs, 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 bgs. The SB-1 Soil Boring Log is provided as Attachment B.

5. nAPP2127156622 Proposed Work Plan

Test pit TP4 exhibited GRO (C6-C10), DRO (C10-C28), and Total TPH above Table I Closure Criteria to a depth of twenty (20) feet bgs. Soil boring SB-1 exhibited exceedances above Table I Closure Criteria for DRO (C10-C28) at five (5) through ten (10) feet bgs, and Total TPH at five (5) feet bgs. None of the other samples submitted for analysis exhibited exceedances above Table I Closure Criteria.

GHD, on behalf of EOG, proposes to excavate soils containing Total TPH concentrations over 100 mg/kg and chloride concentrations over 600 mg/kg within the top four (4) feet of the impacted area. Additionally, the area around TP-4/SB-1 will be excavated to between ten (10) and twenty-four (24) feet bgs based on the confirmation sampling results. If samples exhibit TPH concentrations below Table 1 requirements for greater than one hundred (100) feet to groundwater, the excavation will be backfilled with non-impacted soil transported to the Site. If TPH concentrations exceed Table 1 closure criteria, an amendment to this plan will be submitted through the portal for NMOCD consideration.

Composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no larger than two hundred (200) square feet. Discrete soil samples will be collected from the sidewalls if any staining is observed. All confirmation samples will be taken to a certified laboratory and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300.

Excavated soils will be transported to a NMOCD approved disposal facility for disposal. The anticipated volume of soil to be disposed of is approximately 2,120 cubic yards depending on the final dimensions of the excavation based on the depth and site conditions encountered. The excavation will be backfilled with non-impacted soil transported to the Site. The remediation will be performed within 90 days after the work plan has been approved. If the confirmation samples collected from the excavation are below Table I Closure Criteria, a closure report will be prepared to document remediation activities and submitted to the NMOCD.

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

Sincerely,

GHD

Becky Haskell
Senior Project Manager

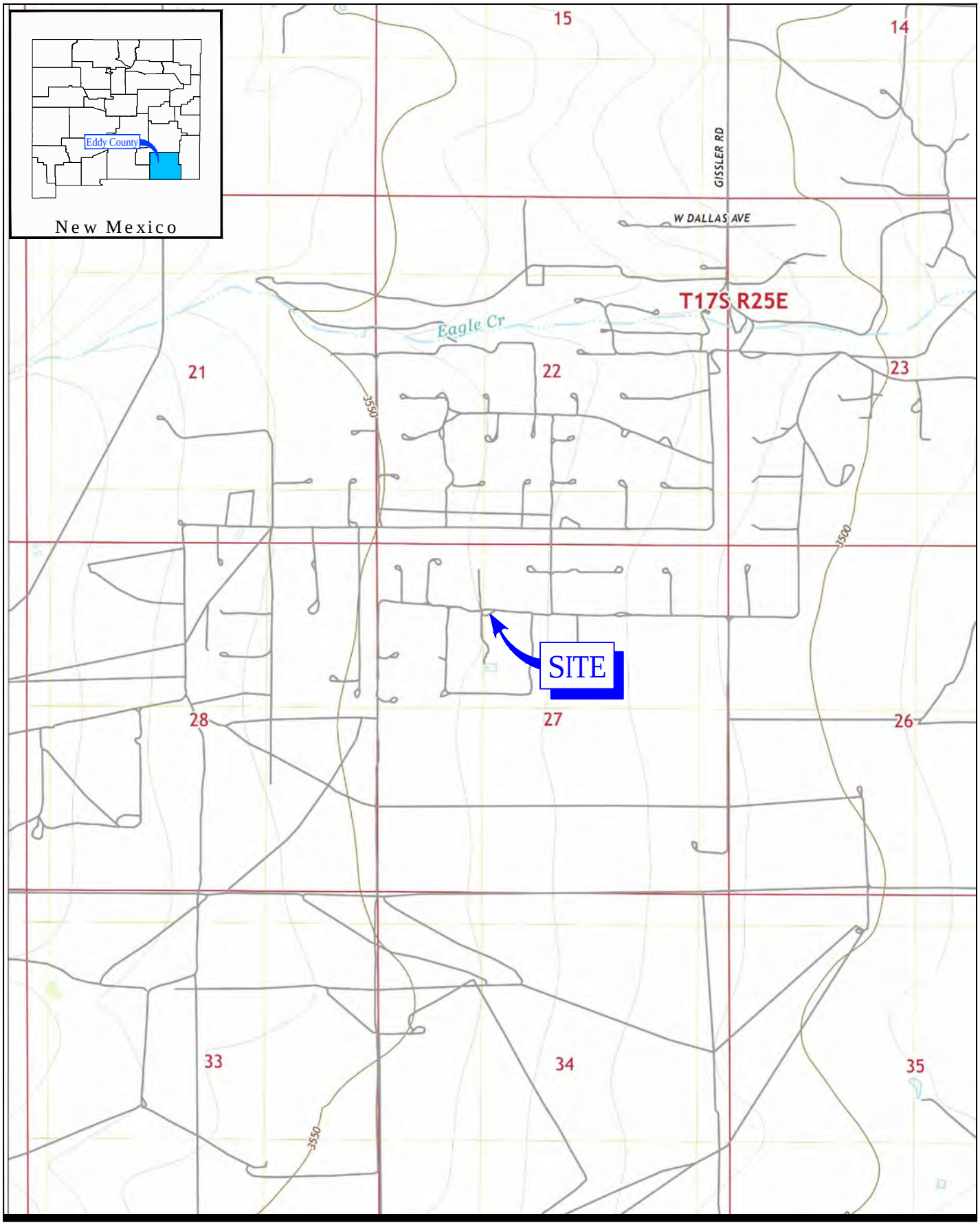
Nate Reece
Environmental Scientist

NR/bh/1

Encl. Figure 1 – Site Location Map
Figure 2 – Site Assessment: Soil Analytical Results Map
Table 1 – Summary of Soil Analytical Data
Attachment A – Site Characterization Documentation
Attachment B – SB-1 Soil Boring Log
Attachment C – 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

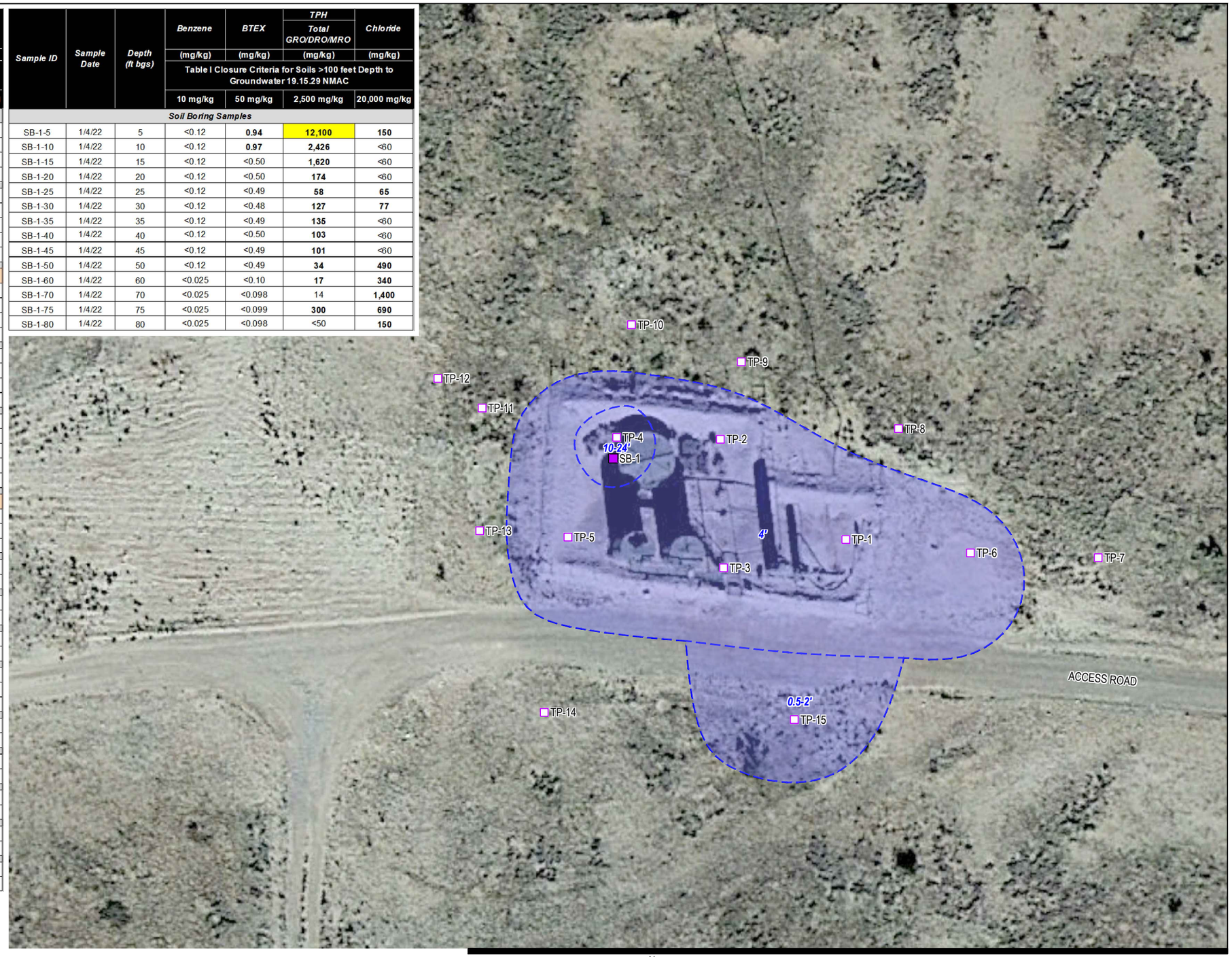
FIGURE 1

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 **March 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 March 2022 11:50 PM

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)	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/kg	---	---	---	50 mg/kg	1000 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**	**720**	**807**	**140**
TP1-6	9/30/21	6	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<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	<44	<44	**1,000**
TP1-12	9/30/21	12	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<49	**350**
TP2-2	9/30/21	2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	**350**	**1,500**	**1,850**	<59
TP2-10	10/14/21	10	<0.47	<0.93	<0.93	<1.9	<1.9	**93**	**690**	**490**	**1,273**	**230**
TP2-12	10/14/21	12	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	**92**	**120**	**212**	**210**
TP2-15	10/14/21	15	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	**140**	**130**	**270**	**100**
TP2-19	10/14/21	19	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	**68**	**280**	**348**	**150**
TP3-2	9/30/21	2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	**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	<48	<48	**830**
TP3-10	9/30/21	10	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<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	<44	<44	**820**
TP3-19	9/30/21	19	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<10	<50	<50	**1,600**
TP4-2	9/30/21	2	<0.12	<0.24	<0.24	<0.49	<0.49	<24	**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**	**920**	**3,210**	<60
TP4-17	10/14/21	17	<0.46	<0.92	**8.1**	**6.2**	**14.3**	**790**	**5,100**	**2,200**	**8,090**	**290**
TP4-20	10/14/21	20	**0.63**	<0.93	**9.8**	**12**	**22.43**	**1,100**	**4,100**	**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	<48	<48	**360**
TP5-6	9/30/21	6	<0.12	<0.24	<0.24	<0.49	<0.49	**51**	**1,000**	**740**	**1,791**	**340**
TP5-12	10/13/21	12	<0.023	<0.046	**0.19**	**1.2**	**1.39**	**63**	**1,000**	**980**	**2,043**	**180**
TP5-16	10/13/21	16	<0.024	<0.047	**0.083**	**0.35**	**0.433**	**19**	**200**	**160**	**379**	**280**
TP5-20	10/13/21	20	<0.024	<0.049	**0.073**	**0.24**	**0.313**	**18**	**340**	**220**	**578**	**860**
TP6-2	10/20/21	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<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	<49	<49	**2,500**
TP6-8	10/20/21	8	<0.12	<0.24	<0.24	<0.49	<0.49	<24	<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	<44	<44	**190**

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)	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/kg	---	---	---	50 mg/kg	1000 mg/kg		---	2,500 mg/kg	20,000 mg/kg
TP7-S	10/20/21	Surface	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<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	<49	<49	<60
TP8-S	10/20/21	Surface	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<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	<48	<48	<60
TP9-S	10/20/21	Surface	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<49	<49	<60
TP9-2	10/20/21	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<10	<50	<50	<60
TP10-S	10/20/21	Surface	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.0	<45	<45	<60
TP10-2	10/20/21	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.8	<49	<49	**150**
TP10-4	10/20/21	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<50	<50	<61
TP11-2	10/20/21	2	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<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	<48	<48	**270**
TP12-S	10/20/21	Surface	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<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	<47	<47	<60
TP13-S	10/20/21	Surface	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<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	<49	<49	**320**
TP14-S	10/20/21	Surface	<0.024	<0.049	<0.049	<0.097	<0.0097	<4.9	<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	<49	<49	<60
TP15-S	10/20/21	Surface	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	**48**	**250**	**298**	<60
TP15-2	10/20/21	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<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**	**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**	**740**	**2,426**	<60
SB-1-15	1/4/22	15	<0.12	<0.25	<0.25	<0.50	<0.50	<25	**970**	**650**	**1,620**	<60
SB-1-20	1/4/22	20	<0.12	<0.25	<0.25	<0.50	<0.50	<25	**120**	**54**	**174**	<60
SB-1-25	1/4/22	25	<0.12	<0.24	<0.24	<0.49	<0.49	<24	**58**	<48	**58**	**65**
SB-1-30	1/4/22	30	<0.12	<0.24	<0.24	<0.48	<0.48	<24	**75**	**52**	**127**	**77**
SB-1-35	1/4/22	35	<0.12	<0.25	<0.25	<0.49	<0.49	<25	**72**	**63**	**135**	<60
SB-1-40	1/4/22	40	<0.12	<0.25	<0.25	<0.50	<0.50	<25	**49**	**54**	**103**	<60
SB-1-45	1/4/22	45	<0.12	<0.24	<0.24	<0.49	<0.49	<24	**50**	**51**	**101**	<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)	MRO (C28-C35)	Total GRO/DRO/MRO	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/kg	---	---	---	50 mg/kg	1000 mg/kg		---	2,500 mg/kg	20,000 mg/kg
SB-1-50	1/4/22	50	<0.12	<0.25	<0.25	<0.49	<0.49	<25	**34**	<50	**34**	**490**
SB-1-60	1/4/22	60	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	**17**	<49	**17**	**340**
SB-1-70	1/4/22	70	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	**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**	**130**	**300**	**690**
SB-1-80	1/4/22	80	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<50	<50	**150**

Notes:

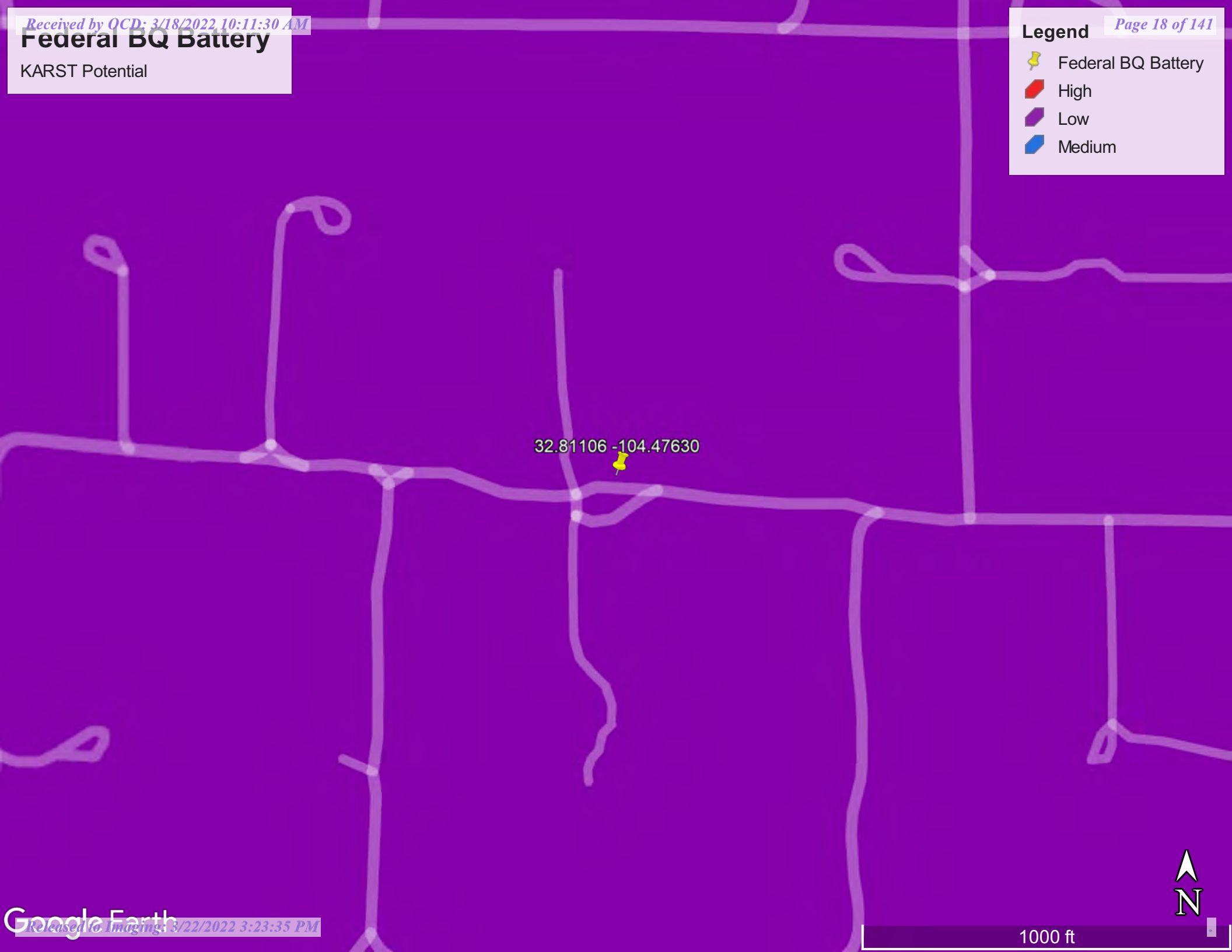
1. Values reported in mg/kg
2. < = Value Less than Reporting Limit (RL)
3. Bold Indicates Analyte Detected
4. BTEX analyses by EPA Method SW 8021B.
5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil
7. Yellow shaded cells indicate analytical samples that exceed the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

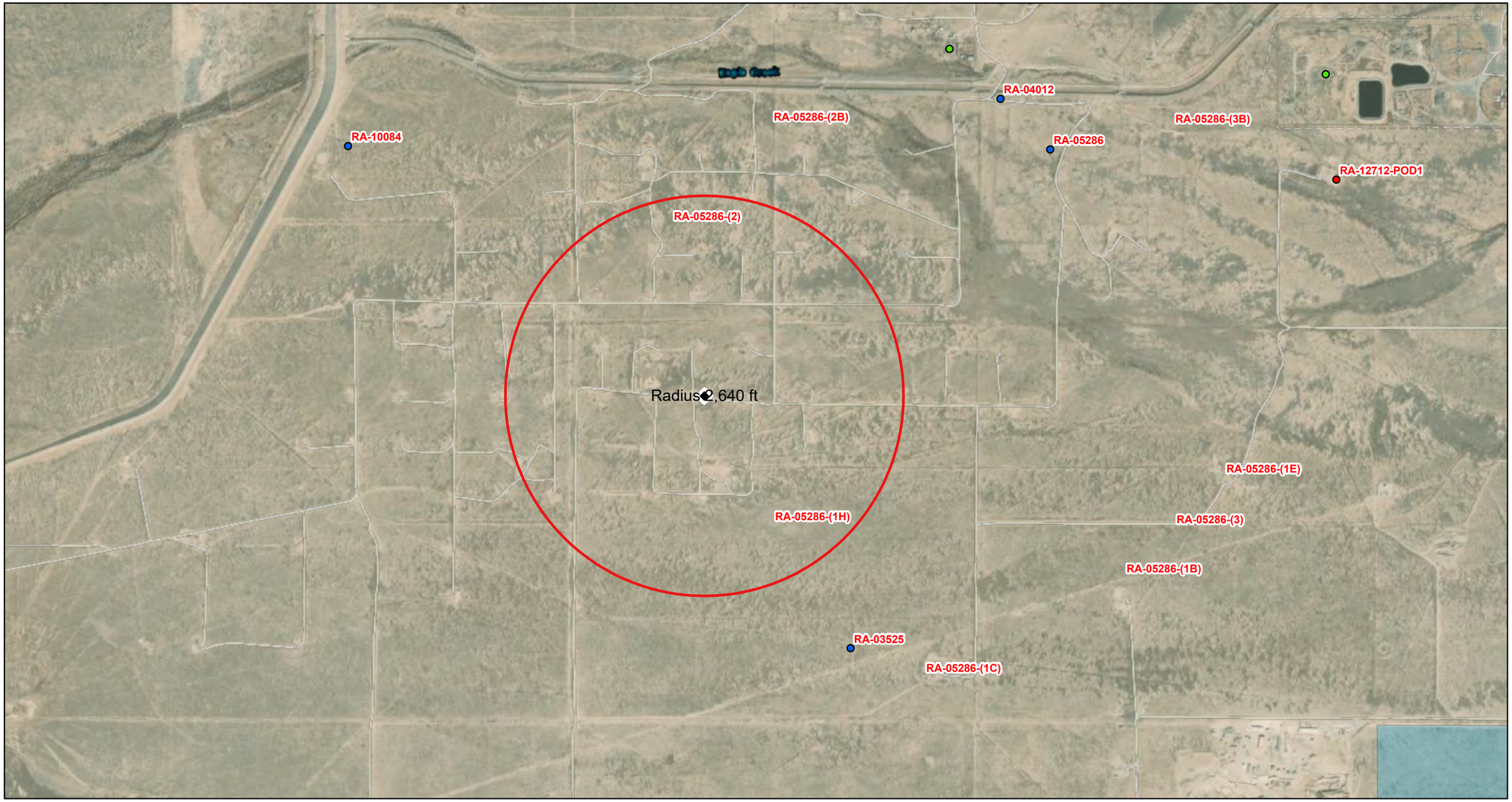
Attachment A
Site Characterization Documentation

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

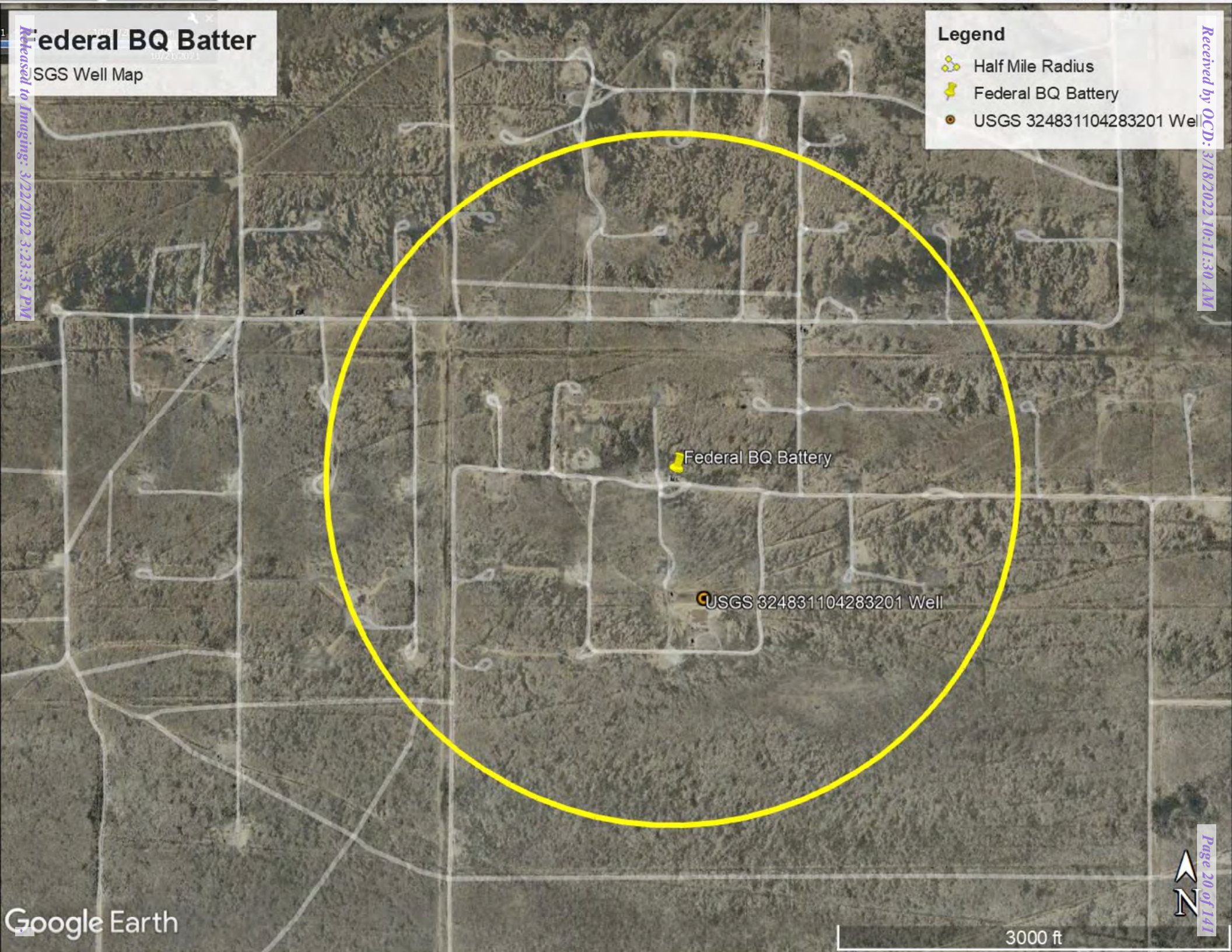
0 0.17 0.35 0.7 mi

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

Federal BQ Batter

SGS Well Map



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National Water Information System: Web Interface

USGS Water Resources (Cooperator Access)

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

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- 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.

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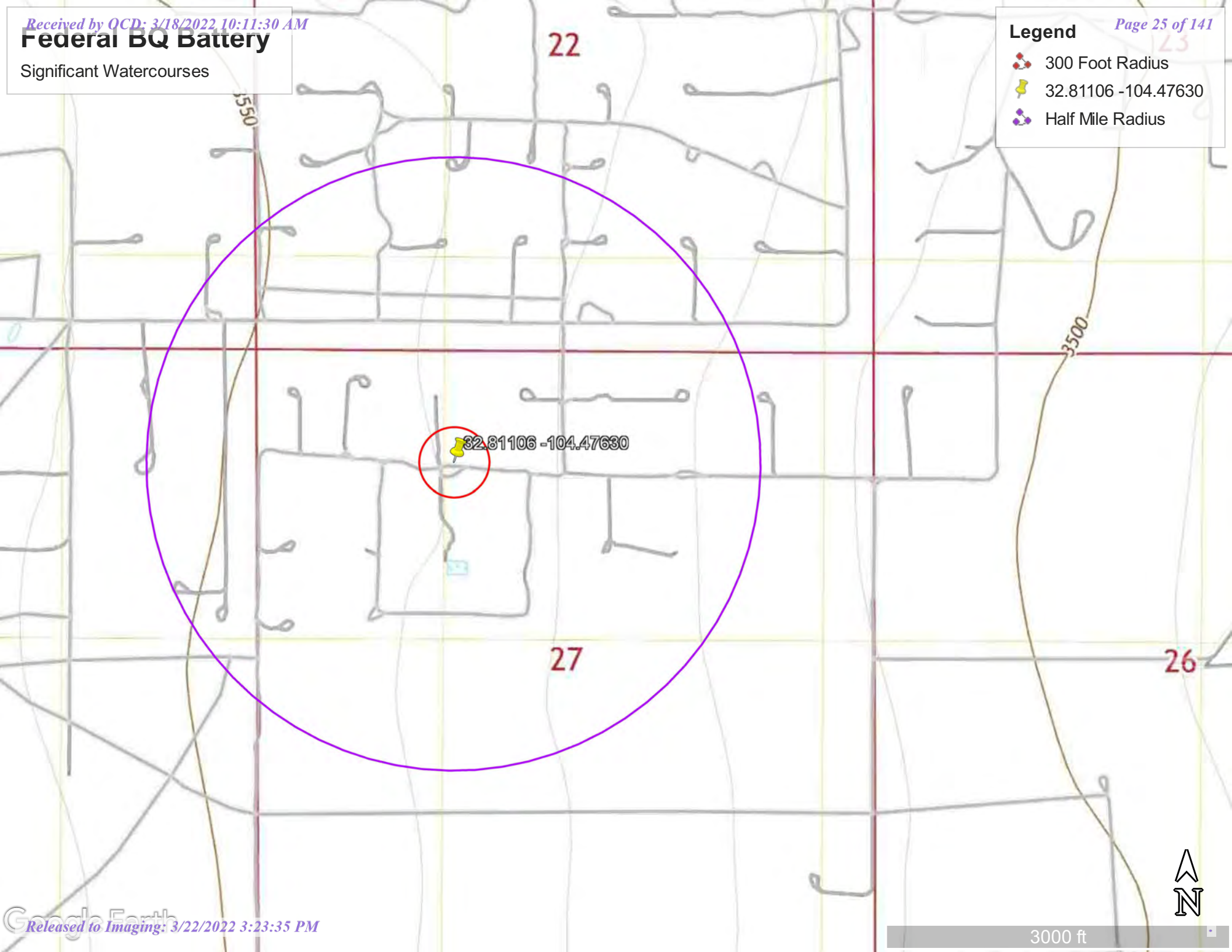
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

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

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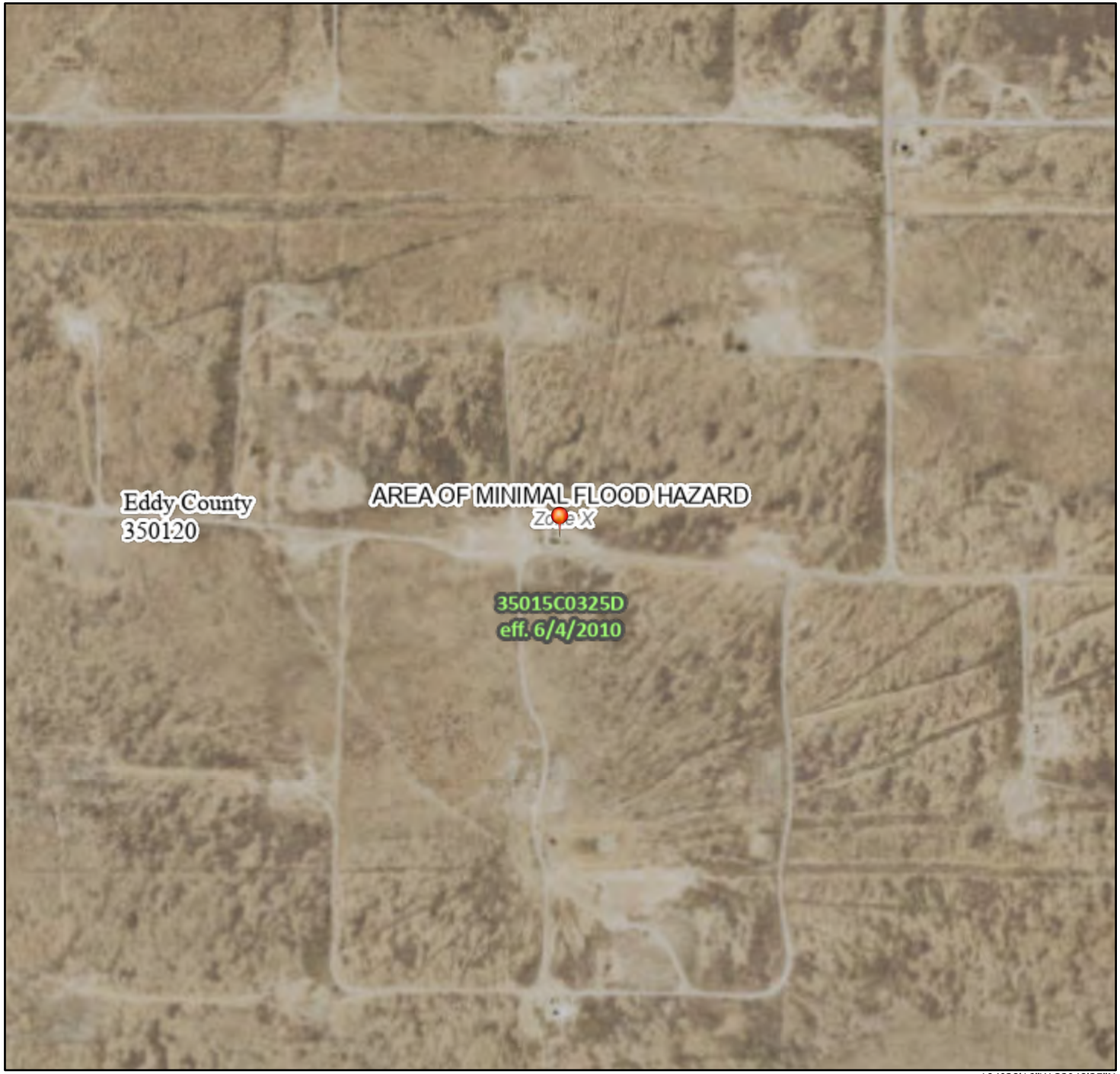
National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

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 B
SB-1 Soil Boring Log

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Federal BQ Battery
HOLE DESIGNATION: SB-1
PROJECT NUMBER: 12563440
DATE COMPLETED: January 4, 2022
CLIENT: EOG Resources
DRILLING METHOD: Air Rotary/Split Spoons
LOCATION: Artesia, New Mexico
FIELD PERSONNEL: Z. Comino
DRILLING CONTRACTOR: White Drilling Company, Inc.
DRILLER: B. Atkins

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	CHLORIDE (mg/kg)	TOTAL TPH (mg/kg)
5	SM-SILTY 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	SM-SILTY 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	SM-SILTY 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	GP-GRAVEL, with fine to medium grained sand, about 75% <0.5 - 1 cm limestone gravel, 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	SM-SILTY 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: 1/20/22

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
RA-13126 POD 1 (SB-1)		RA-13126

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

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

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	48	39.81	N
	LONGITUDE	104	28	35.01	W

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

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

Federal BQ Battery

2. DRILLING & CASING INFORMATION

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

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
1/04/2022	1/05/2022		80.0	DRY

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

STATIC WATER LEVEL IN COMPLETED WELL (FT): DRY

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

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

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

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0.0	80.0	6.0	Type 1 Cement-Bentonite Slurry	15.70	Pump Mix w/Trimie Pipe

FOR OSE INTERNAL USE

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

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

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0.0	6.0	6.0	Brown sand/clayey sand w/caliche mix.	Y ✓ N	
6.0	14.0	8.0	Gravel w/clay mixed gray stained.	Y ✓ N	
14.0	46.0	32.0	Tan silty sand w/gravel.	Y ✓ N	
46.0	56.0	10.0	Brown sandy clay w/gravel mixed.	Y ✓ N	
56.0	66.0	10.0	Tan silty sand w/gravel.	Y ✓ N	
66.0	73.0	7.0	Brown silty sandy clay w/gravel.	Y ✓ N	
73.0	80.0	7.0	Gravel w/brown clay mixed.	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

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

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

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

MISCELLANEOUS INFORMATION: Hydrocarbon & chlorides present

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

William B. Atkins

6. SIGNATURE

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

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

01/20/2022 — DATE

FOR OSE INTERNAL USE

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

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

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

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

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

Hall Environmental Analysis Laboratory, Inc.

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
Project: Federal BQ Battery
Lab ID: 2110087-002 **Matrix:** SOIL

Client Sample ID: TP1-6
Collection Date: 9/30/2021 9:30:00 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	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.
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: TP1-10
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
Project: Federal BQ Battery
Lab ID: 2110087-004 **Matrix:** SOIL

Client Sample ID: TP1-12
Collection Date: 9/30/2021 10:25:00 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	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
Project: Federal BQ Battery
Lab ID: 2110087-005 **Matrix:** SOIL

Client Sample ID: TP2-2
Collection Date: 9/30/2021 11:40:00 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	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
Project: Federal BQ Battery
Lab ID: 2110087-006 **Matrix:** SOIL

Client Sample ID: TP3-2
Collection Date: 9/30/2021 12:00:00 PM
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.
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: TP3-6
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
Project: Federal BQ Battery
Lab ID: 2110087-008 **Matrix:** SOIL

Client Sample ID: TP3-10
Collection Date: 9/30/2021 12:15:00 PM
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.
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: **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.	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-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.
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: **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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: GHD Midland | Work Order Number: 2110087 | RcptNo: 1

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

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

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)	Chloride Method 300
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	↓	↓								↓	

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 #: 125C440

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 Method 300
09301	1440	S	TPS-2	Jar		013	A	X									X
"	1455	"	TPS-6	"		014	"	"									"

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

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

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

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									X
"	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

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

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

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: GHD Midland | Work Order Number: 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 1 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. 2110A71	~~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
102021	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
102121	0800	Zach Comino [signature]	[signature]		10/21/21	800
10/21/21	1900	[signature]	[signature]		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

0.5-0.2=0.3
0.6-0.2=0.4
2.1-0.0=2.1

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: 3

Cooler Temp (including CF): See 1st page

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

2 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 Meth 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.
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: **2201192-005ams** 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

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			courier	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

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

Analysis Request

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-1-75	Jar 1		013	X	X									X
↓	1015	↓	SB-1-80	↓		014	X	X									X

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
1/5/22	0800	Zach Comino				
1/5/22	1900				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

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 91287

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 91287
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved.	3/22/2022