

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

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

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

Incident ID	nAPP2125655405
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 # 30-015-20592
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

Location of Release Source

Latitude 32.7207794 Longitude -104.4318771
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Hornbaker BA #2	Site Type Well Pad
Date Release Discovered 9/10/2021	API# 30-015-20592

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

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

Nature and Volume of Release

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

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

Cause of Release Historical impacts were discovered around the wellhead during the reclamation activities. The release date and volume is unknown, the environmental consultant contracted to investigate the site determined based that the release most likely crossed the reportable threshold due the concentrations encountered and size of the impacted area.

State of New Mexico
Oil Conservation Division

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

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Chase Settle</u> Title: <u>Rep Safety & Environmental Sr</u> Signature: <u></u> Date: <u>09/13/2021</u> email: <u>Chase_Settle@eogresources.com</u> Telephone: <u>575-748-1471</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>9/13/2021</u>

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Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

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

Signature: Chase Settle Date: 01/31/2022

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

OCD Only

Received by: _____ Date: _____

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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: 01/31/2022
 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: 02/09/2022

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Closure

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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr
 Signature: *Chase Settle* Date: 05/05/2022
 email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: *Jennifer Nobui* Date: 05/24/2022
 Printed Name: Jennifer Nobui Title: Environmental Specialist A

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

Our ref: 11228980

May 05, 2022

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

Re: **Site Closure Report**
Hornbaker BA #2 Release Site
EOG Resources Inc.
Incident ID: nAPP2125655405
H-25-18S-25E, Eddy County, New Mexico

To Whom It May Concern:

1. Introduction

GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG), submits this Site Closure Report to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of delineation, sampling, remedial activities, and analyses in the affected area at the EOG Hornbaker BA #2 Release Site (Site). The Site is located in Unit Letter H Section 25 of Township 18 South and Range 25 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.7207794 N latitude and 104.4318771 W longitude. The release occurred on private land owned by Hornbaker Estate. Figure 1 depicts the Site location. The EOG production facility and other site details are depicted on Figure 2 and Figure 3.

2. Background Information

A C-141 initial report for this release was submitted to the NMOCD on September 13, 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's restoration and reclamation process with this location. Soils around the dry hole marker appeared to be discolored and after discussions between field personnel and environmental staff, EOG made the decision to file a C-141 for this suspected 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 nAPP2125655405. A Site Characterization and Remediation Work Plan dated January 28, 2022 was submitted to the NMOCD for approval. The work plan was approved by the NMOCD on February 9, 2022. The Release Notification, Site Assessment/Characterization, Remediation Plan and Closure portions of Form C-141 are attached to the front of this report.

3. Groundwater and Site Characterization

GHD characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

GHD and White Drilling Company, Inc (White), on behalf of EOG, installed a groundwater determination soil boring (DTW Well) at the following GPS coordinates, 32.71749 N latitude and 104.43004 W longitude located within 0.25 miles to the south of the Site. The DTW Well was drilled to 107.5 feet below ground surface and was left open for seventy-two (72) hours. After utilization of a water level meter, it was determined groundwater was greater than 107.5 feet below ground surface. and the boring was plugged. No other receptors (karst potential areas, water wells, playas, wetlands, waterways, lakebeds or ordinance boundaries) were located within each specific boundary 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 that meets Closure Criteria for depth to groundwater greater than one hundred (100) feet for Table I in NMAC 19.15.29.12. The Site characterization documentation (DTW Well: Stratigraphic and Instrumental Log, Karst Potential, FEMA, Watercourse, 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

On September 20 and 21, 2021, GHD Services Inc. (GHD) and EOG's contractor Culberson Construction Energy Services (CCI), on behalf of EOG, installed sixteen (16) test pits within the suspected impacted area. Site assessment activities in the northern portion of the Site was ceased once a liner at four (4) feet below ground surface was discovered from a previous remediation project. Within those first four (4) feet soils were non-impacted and vegetated; therefore, GHD and CCI did not agitate or disturb the soils or liner. All soil samples outside the lined area were collected from surface to (20) feet below ground surface. Samples were then analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA Method 8021B, Total Petroleum Hydrocarbons (TPH) by Method 8015B Modified, and chloride by EPA Method 300 by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico. Analytical results indicated none of the soil samples exhibited benzene, BTEX, TPH or chloride concentrations above Table I Closure Criteria. Depth to groundwater was unknown during this phase of investigation.

Figure 2, Site Assessment: Soil Analytical Results Map, depicts the locations of the initial delineation samples, analytical concentrations, and the lined area with non-impacted soils in the first four (4) feet below ground surface located in the northern portion of the Site. Analytical results are provided in Table 1, on Figure 2, and in the Laboratory Analytical Reports provided in Attachment D.

5. Excavation, Waste Management and Confirmation Sampling

After NMOCD Remediation Plan approval, GHD and Standard Safety and Supply (SS) mobilized to the site on March 1, 2022, to excavate the affected soils. Excavation activities continued through March 8, 2022, and the extents were determined based off field screening results. As shown in Figure 3, a total of eleven (11) sidewall composite (SW-1 through SW-11) and fifty-four (54) bottom hole composite (BH-1 through BH-54) confirmation samples were collected. Bottom hole confirmation samples were collected at a depth of approximately four (4) feet below ground surface. Composite confirmation samples were taken to HEAL in Albuquerque, New Mexico. All samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. All confirmation samples collected represented areas no greater than two hundred (200) square feet. None of the final confirmation samples exhibited benzene, BTEX, TPH or chloride concentrations above the Table I closure criteria. Laboratory Analytical Reports and Chain-of-Custody Documentation are provided in Attachment D. Analytical results are summarized in Table 1 and on attached Figure 3. A photographic log is included as Attachment B. Confirmation Sampling Notifications are included as Attachment C.

Waste Management activities were performed in coordination with EOG directives. EOG obtained regulatory approval via the successful processing of Form C-138 Request for Approval to Accept Solid Waste. The waste was approved for acceptance at the OCD-permitted (WM-1-035), Lea Land, LLC facility located at MM64, Highway 62/180 East, Carlsbad, NM, 88220. Approximately 2,121 tons of impacted soil were disposed at Lea Land, LLC, the waste manifests from March 2, 2022, through March 8, 2022, are available upon request and aren't included in this report due to size of the file. A Daily Disposal Summary is provided as Table 2.

6. nAPP2125655405 Closure Request

Site characterization, soil delineation, and remediation activities for this incident number have been performed in accordance with applicable NMOCD guidelines and regulations. Based upon supporting documentation provided in this report, GHD, on behalf of EOG, respectfully requests closure and no further regulatory actions for nAPP2125655405.

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

Sincerely,

GHD



Nate Reece
Environmental Scientist



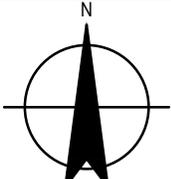
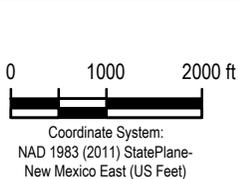
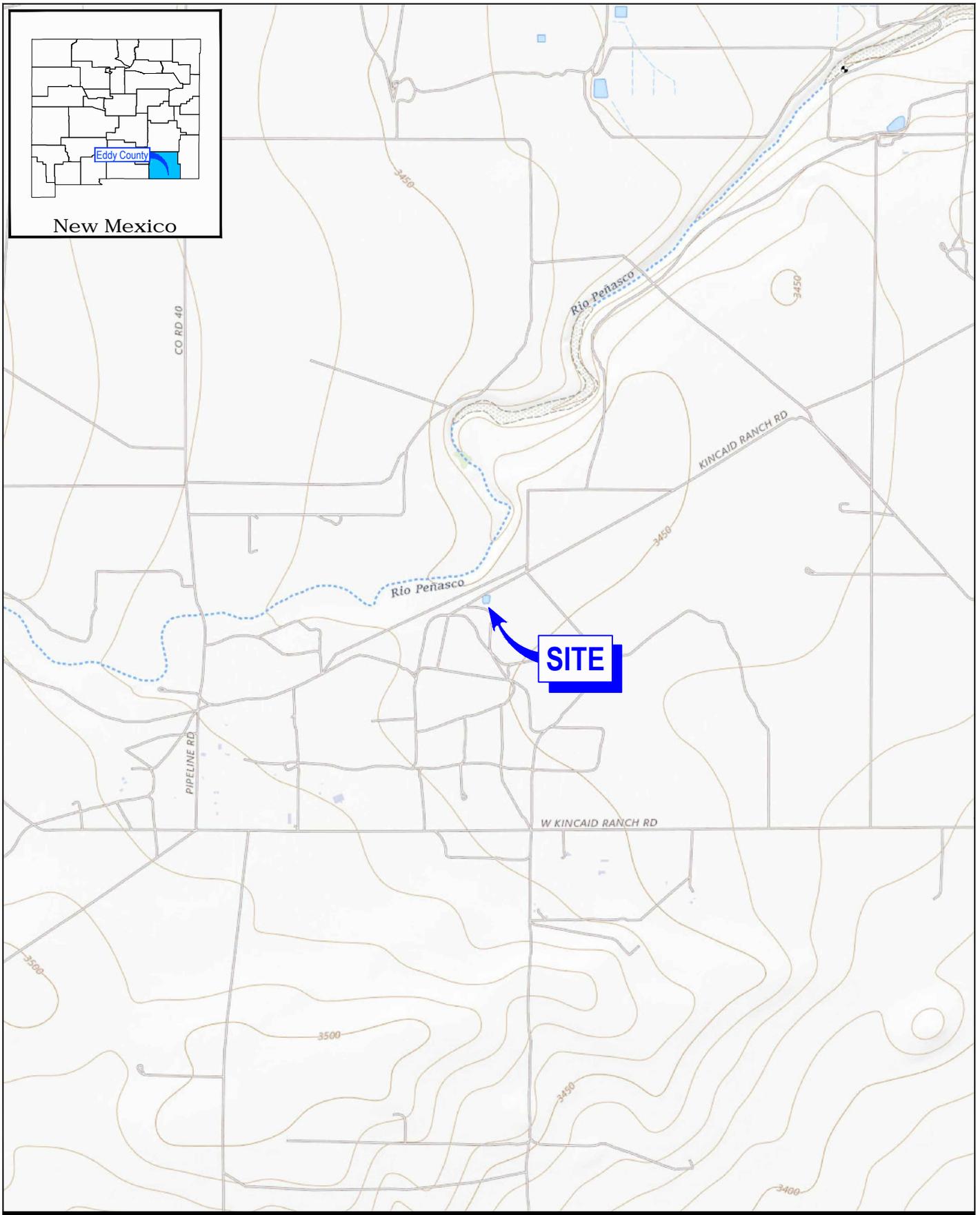
Becky Haskell
Senior Project Manager

BH/NR/1

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

cc: Chase Settle

Figures



EOG RESOURCES
 EDDY COUNTY, NEW MEXICO
 HORNBAKER BA #2 BATTERY

Project No. 11228980
 Date January 2022

SITE LOCATION MAP

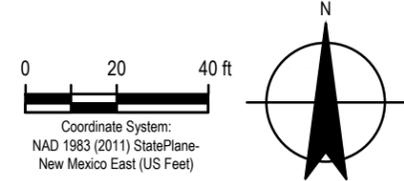
FIGURE 1



LEGEND

- 4' PROPOSED EXCAVATED AREA AND DEPTH
- LINED AREA: NON-IMPACTED FIRST 4' BGS
- TEST PIT LOCATION
- DEPTH DEPTH OF SAMPLE (FT)
- BTEX BENZENE, TOLUENE, ETHYLBENZENE & XYLENES CONCENTRATION (MG/KG)
- TPH TOTAL PETROLEUM HYDROCARBONS CONCENTRATION (MG/KG)

- NOTES:**
- RESULTS IN MILLIGRAMS PER KILOGRAM (MG/KG).
 - SEE TABLE 1 FOR FULL ANALYTICAL RESULTS/DETAILS.
 - ORANGE SHADED CELLS EXCEED THE NMOC 19.15.29.13 (FIRST 4 FEET) TABLE 1.



Sample ID	Sample Date	Depth (feet bgs)	Benzene	BTEX	TPH	Chloride
			(mg/Kg)	(mg/Kg)	Total GRO/DRO/MRO	(mg/Kg)
			10 mg/Kg	50 mg/Kg	2,500 mg/Kg	20,000 mg/Kg
Initial Assessment Samples - Test Pits						
TP1-2	9/20/2021	2	<0.025	<0.10	1,510	1,100
TP1-6	9/20/2021	6	<0.023	<0.093	<49	680
TP1-10	9/20/2021	10	<0.025	<0.099	<49	750
TP1-12	9/20/2021	12	<0.024	<0.094	172	530
TP1-14	9/20/2021	14	<0.024	<0.095	<50	190
TP2-2	9/20/2021	2	<0.024	<0.096	<48	410
TP3-S	9/20/2021	Surface	<0.023	<0.094	<46	<60
TP3-2	9/20/2021	2	<0.025	<0.099	<48	<60
TP4-S	9/20/2021	Surface	<0.024	<0.094	150	<60
TP4-2	9/20/2021	2	<0.024	<0.094	<49	120
TP5-2	9/20/2021	2	<0.025	<0.099	<49	1,300
TP5-6	9/20/2021	6	<0.024	<0.095	<50	710
TP5-8	9/20/2021	8	<0.024	<0.095	<48	360
TP6-2	9/20/2021	2	<0.024	<0.094	<48	1,000
TP6-6	9/20/2021	6	<0.024	<0.097	<48	390
TP7-S	9/20/2021	Surface	<0.023	<0.093	<50	<60
TP7-2	9/20/2021	2	<0.023	<0.092	<48	320
TP8-2	9/20/2021	2	<0.024	<0.096	<46	1,200
TP8-6	9/20/2021	6	<0.024	<0.098	224	1,200
TP8-12	9/20/2021	12	<0.024	<0.097	<50	610
TP8-18	9/20/2021	18	<0.024	<0.097	<46	860
TP8-20	9/20/2021	20	<0.025	<0.098	<47	470
TP9-2	9/21/21	2	<0.024	<0.094	326	2,200
TP9-6	9/21/21	6	<0.023	<0.093	<46	1,500
TP9-10	9/21/21	10	<0.025	<0.099	<47	1,300
TP9-14	9/21/21	14	<0.025	<0.098	<50	950
TP9-17	9/21/21	17	<0.024	<0.098	<47	550
TP9-19	9/21/21	19	<0.024	<0.097	<49	300
TP10-2	9/21/21	2	<0.025	<0.099	<50	1,100
TP10-6	9/21/21	6	<0.025	<0.098	<48	270
TP10-8	9/21/21	8	<0.024	<0.095	<47	380
TP10-10	9/21/21	10	<0.023	<0.093	<48	75
TP11-S	9/21/21	Surface	<0.025	<0.099	<50	<60
TP11-2	9/21/21	2	<0.025	<0.099	<48	<60
TP12-S	9/21/21	Surface	<0.024	<0.096	<50	<60
TP12-2	9/21/21	2	<0.024	<0.097	<47	<60
TP13-2	9/21/21	2	<0.024	<0.096	<50	200
TP13-4	9/21/21	4	<0.025	<0.098	<50	240
TP14-S	9/21/21	Surface	<0.025	<0.098	11	130
TP14-2	9/21/21	2	<0.023	<0.093	<47	83
TP15-S	9/21/21	Surface	<0.025	<0.099	<50	<60
TP15-2	9/21/21	2	<0.024	<0.098	<49	99
TP16-S	9/21/21	Surface	<0.024	<0.097	<49	<60
TP16-2	9/21/21	2	<0.023	<0.093	236	<60

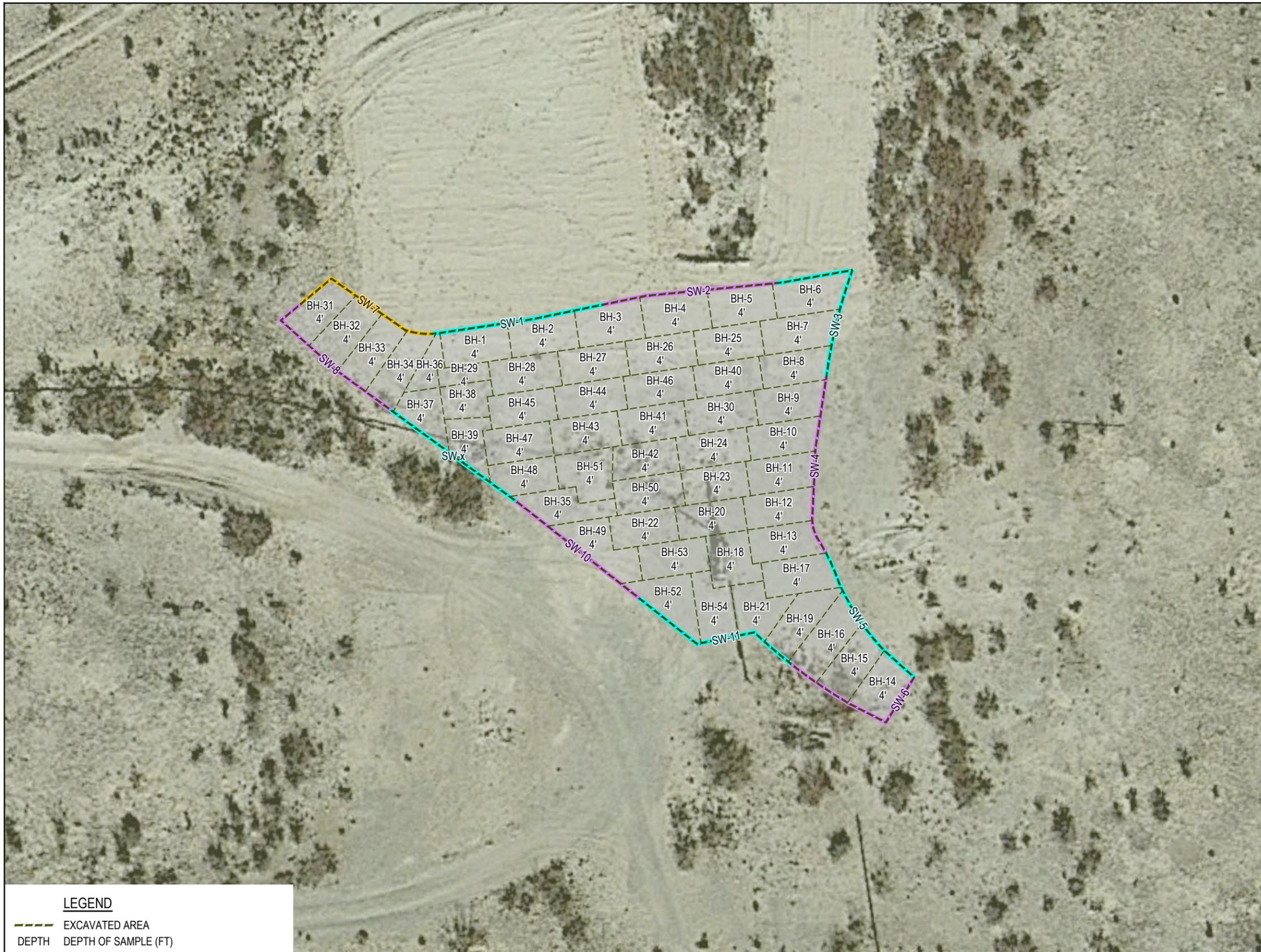


EOG RESOURCES
EDDY COUNTY, NEW MEXICO
HORNBAKER BA #2 BATTERY

SITE ASSESSMENT:
SOIL ANALYTICAL RESULTS MAP

Project No. 11228980
 Date January 2022

FIGURE 2

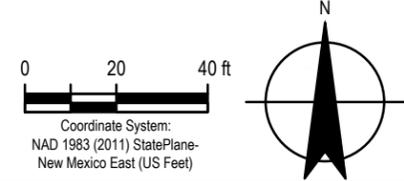


Sample ID	Sample Date	Depth (ft bgs)	Benzene	BTEX	TPH	Chloride
			(mg/kg)	(mg/kg)	Total GRODROMRO (mg/kg)	(mg/kg)
			Table 1 Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMA C			
Bottom Hole Confirmation Samples						
BH-1	3/2/22	4	<0.024	<0.095	230	3,600
BH-2	3/2/22	4	<0.025	<0.098	208	3,400
BH-3	3/2/22	4	<0.024	<0.097	<44	1,400
BH-4	3/2/22	4	<0.024	<0.096	<50	2,400
BH-5	3/2/22	4	<0.024	<0.095	<48	1,600
BH-6	3/2/22	4	<0.023	<0.093	<48	1,000
BH-7	3/2/22	4	<0.024	<0.095	<48	2,000
BH-8	3/2/22	4	<0.024	<0.097	<47	890
BH-9	3/2/22	4	<0.024	<0.097	<48	680
BH-10	3/2/22	4	<0.025	<0.098	<46	590
BH-11	3/2/22	4	<0.023	<0.094	<47	450
BH-12	3/2/22	4	<0.025	<0.098	<49	1,500
BH-13	3/2/22	4	<0.025	<0.10	<48	1,100
BH-14	3/2/22	4	<0.023	<0.092	<44	790
BH-15	3/2/22	4	<0.025	<0.099	<47	1,800
BH-16	3/3/22	4	<0.025	<0.099	<47	1,300
BH-17	3/3/22	4	<0.025	<0.099	<49	1,500
BH-18	3/3/22	4	<0.025	<0.098	<48	710
BH-19	3/3/22	4	<0.023	<0.094	<49	1,500
BH-20	3/3/22	4	<0.024	<0.095	<47	920
BH-21	3/3/22	4	<0.025	<0.098	<46	1,000
BH-22	3/3/22	4	<0.025	<0.10	<49	1,700
BH-23	3/3/22	4	<0.024	<0.096	<43	2,100
BH-24	3/3/22	4	<0.025	<0.10	<47	1,600
BH-25	3/3/22	4	<0.025	<0.099	<47	1,600
BH-26	3/3/22	4	<0.025	<0.10	<47	2,100
BH-27	3/3/22	4	<0.025	<0.099	<45	2,300
BH-28	3/3/22	4	<0.025	<0.098	<49	2,300
BH-29	3/3/22	4	<0.025	<0.099	<47	2,300
BH-30	3/3/22	4	<0.025	<0.10	<47	2,300
BH-31	3/3/22	4	<0.025	<0.10	<47	200
BH-32	3/4/2022	4	<0.025	<0.098	<49	2,000
BH-33	3/4/2022	4	<0.025	<0.099	<50	820
BH-34	3/4/2022	4	<0.025	<0.099	<47	2,200
BH-35	3/4/2022	4	<0.025	<0.099	<47	3,100
BH-36	3/4/2022	4	<0.024	<0.098	<50	2,800
BH-37	3/4/2022	4	<0.025	<0.099	<47	2,400
BH-38	3/4/2022	4	<0.025	<0.098	<50	2,700
BH-39	3/4/2022	4	<0.025	<0.099	<49	2,400
BH-40	3/4/2022	4	<0.025	<0.098	<45	1,900
BH-41	3/4/2022	4	<0.025	<0.099	<48	1,700
BH-42	3/4/2022	4	<0.024	<0.098	10	1,900
BH-43	3/4/2022	4	<0.024	<0.095	<50	150
BH-44	3/4/2022	4	<0.025	<0.098	<50	370
BH-45	3/4/2022	4	<0.024	<0.097	<50	2,300
BH-46	3/4/2022	4	<0.023	<0.093	<48	<60
BH-47	3/4/2022	4	<0.024	<0.097	<48	1,000
BH-48	3/4/2022	4	<0.024	<0.098	40	2,000
BH-49	3/4/2022	4	<0.025	<0.10	<49	2,300
BH-50	3/4/2022	4	<0.025	<0.099	<49	1,100
BH-51	3/8/2022	4	<0.025	<0.099	98	2,400
BH-52	3/8/2022	4	<0.025	<0.10	<47	1,500
BH-53	3/8/2022	4	<0.024	<0.097	<45	2,000
BH-54	3/8/2022	4	<0.025	<0.098	<49	1,900
Sidewall Confirmation Samples						
SW-1	3/2/22	Sidewall	<0.025	<0.099	<44	110
SW-2	3/2/22	Sidewall	<0.025	<0.099	<50	370
SW-3	3/2/22	Sidewall	<0.025	<0.098	<45	300
SW-4	3/2/22	Sidewall	<0.025	<0.098	<49	290
SW-5	3/2/22	Sidewall	<0.025	<0.098	<46	<60
SW-6	3/3/22	Sidewall	<0.025	<0.099	<49	120
SW-7	3/3/22	Sidewall	<0.024	<0.097	<50	130
SW-8	3/4/2022	Sidewall	<0.025	<0.10	<50	280
SW-9	3/4/2022	Sidewall	<0.025	<0.098	<50	160
SW-10	3/7/2022	Sidewall	<0.024	<0.097	<49	220
SW-11	3/7/2022	Sidewall	<0.024	<0.097	<50	450

LEGEND

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

- NOTES:**
- RESULTS IN MILLIGRAMS PER KILOGRAM (MG/KG).
 - SEE TABLE 1 FOR FULL ANALYTICAL RESULTS/DETAILS.
 - ORANGE SHADED CELLS EXCEED THE NMOC 19.15.29.13 (FIRST 4 FEET) TABLE 1.



EOG RESOURCES
EDDY COUNTY, NEW MEXICO
HORNBAKER BA #2 BATTERY

CONFIRMATION SAMPLING:
SOIL ANALYTICAL RESULTS MAP

Project No. 11228980
 Date May 2022

FIGURE 3

Tables

**Table 1
Summary of Soil Analytical Data
Hornbaker BA Battery 2
EOG Resources
Eddy County, New Mexico**

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	(mg/kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/kg	---	---	---	50 mg/kg	1,000 mg/kg		---	2,500 mg/kg	20,000 mg/kg
Initial Assessment Samples - Test Pits												
TP1-2	9/20/2021	2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	410	1,100	1,540	1,100
TP1-6	9/20/2021	6	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.7	<49	<49	680
TP1-10	9/20/2021	10	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<49	<49	750
TP1-12	9/20/2021	12	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	74	98	172	530
TP1-14	9/20/2021	14	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<10	<50	<50	190
TP2-2	9/20/2021	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.6	<48	<48	410
TP3-S	9/20/2021	Surface	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.3	<46	<46	<60
TP3-2	9/20/2021	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.7	<48	<48	<60
TP4-S	9/20/2021	Surface	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	30	120	150	<60
TP4-2	9/20/2021	2	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.8	<49	<49	120
TP5-2	9/20/2021	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.8	<49	<49	1,300
TP5-6	9/20/2021	6	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<10	<50	<50	710
TP5-8	9/20/2021	8	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.5	<48	<48	360
TP6-2	9/20/2021	2	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.5	<48	<48	1,000
TP6-6	9/20/2021	6	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.7	<48	<48	390
TP7-S	9/20/2021	Surface	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<10	<50	<50	<60
TP7-2	9/20/2021	2	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.7	<48	<48	320
TP8-2	9/20/2021	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.2	<46	<46	1,200
TP8-6	9/20/2021	6	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	64	160	224	1,200
TP8-12	9/20/2021	12	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.9	<50	<50	610
TP8-18	9/20/2021	18	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.2	<46	<46	860
TP8-20	9/20/2021	20	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<47	<47	470
TP9-2	9/21/21	2	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	56	270	326	2,200
TP9-6	9/21/21	6	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.2	<46	<46	1,500
TP9-10	9/21/21	10	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.4	<47	<47	1,300
TP9-14	9/21/21	14	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<50	<50	950
TP9-17	9/21/21	17	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.4	<47	<47	550
TP9-19	9/21/21	19	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.8	<49	<49	300

Table 1
Summary of Soil Analytical Data
Hornbaker BA Battery 2
EOG Resources
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH				Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	(mg/kg)
			Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC									
			10 mg/kg	---	---	---	50 mg/kg	1,000 mg/kg		---	2,500 mg/kg	20,000 mg/kg
TP10-2	9/21/21	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<10	<50	<50	1,100
TP10-6	9/21/21	6	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<48	<48	270
TP10-8	9/21/21	8	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.4	<47	<47	380
TP10-10	9/21/21	10	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.7	<48	<48	75
TP11-S	9/21/21	Surface	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.9	<50	<50	<60
TP-11-2	9/21/21	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48	<60
TP12-S	9/21/21	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.9	<50	<50	<60
TP12-2	9/21/21	2	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.3	<47	<47	<60
TP13-2	9/21/21	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.9	<50	<50	200
TP13-4	9/21/21	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<50	<50	240
TP14-S	9/21/21	Surface	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	11	<48	11	130
TP14-2	9/21/21	2	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.5	<47	<47	83
TP15-S	9/21/21	Surface	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.9	<50	<50	<60
TP15-2	9/21/21	2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<49	<49	99
TP16-S	9/21/21	Surface	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.7	<49	<49	<60
TP16-2	9/21/21	2	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	66	170	236	<60
Bottom Hole Confirmation Samples												
BH-1	3/2/22	4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	90	140	230	3,600
BH-2	3/2/22	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	120	88	208	3,400
BH-3	3/2/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<8.7	<44	<44	1,400
BH-4	3/2/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<10	<50	<50	2,400
BH-5	3/2/22	4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.6	<48	<48	1,600
BH-6	3/2/22	4	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.6	<48	<48	1,000
BH-7	3/2/22	4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.5	<48	<48	2,000
BH-8	3/2/22	4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.4	<47	<47	890
BH-9	3/2/22	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.6	<48	<48	680
BH-10	3/2/22	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<46	<46	590
BH-11	3/2/22	4	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.3	<47	<47	450
BH-12	3/2/22	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<49	<49	1,500
BH-13	3/2/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<48	1,100
BH-14	3/2/22	4	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<8.8	<44	<44	790

**Table 1
Summary of Soil Analytical Data
Hornbaker BA Battery 2
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	1,000 mg/kg		---	2,500 mg/kg	20,000 mg/kg
BH-15	3/2/22	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.5	<47	<47	1,800
BH-16	3/3/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<47	<47	1,300
BH-17	3/3/22	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<49	<49	1,500
BH-18	3/3/22	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<48	<48	710
BH-19	3/3/22	4	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.4	<49	<49	1,500
BH-20	3/3/22	4	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.4	<47	<47	920
BH-21	3/3/22	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<46	<46	1,000
BH-22	3/3/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.7	<49	<49	1,700
BH-23	3/3/22	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.5	<43	<43	2,100
BH-24	3/3/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.5	<47	<47	1,600
BH-25	3/3/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.4	<47	<47	1,600
BH-26	3/3/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.3	<47	<47	2,100
BH-27	3/3/22	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.0	<45	<45	2,300
BH-28	3/3/22	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<49	2,300
BH-29	3/3/22	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.4	<47	<47	2,300
BH-30	3/3/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.4	<47	<47	2,300
BH-31	3/3/22	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.3	<47	<47	200
BH-32	3/4/2022	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<49	<49	2,000
BH-33	3/4/2022	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<10	<50	<50	820
BH-34	3/4/2022	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.4	<47	<47	2,200
BH-35	3/4/2022	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.4	<47	<47	3,100
BH-36	3/4/2022	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<50	<50	2,800
BH-37	3/4/2022	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.3	<47	<47	2,400
BH-38	3/4/2022	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<50	<50	2,700
BH-39	3/4/2022	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.8	<49	<49	2,400
BH-40	3/4/2022	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<45	<45	1,900
BH-41	3/4/2022	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<48	<48	1,700
BH-42	3/4/2022	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	10	<50	10	1,900
BH-43	3/4/2022	4	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.9	<50	<50	150
BH-44	3/4/2022	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<50	<50	370
BH-45	3/4/2022	4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<10	<50	<50	2,300
BH-46	3/4/2022	4	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.7	<48	<48	<60
BH-47	3/4/2022	4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.5	<48	<48	1,000

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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)	
Table I Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC												
			10 mg/kg	---	---	---	50 mg/kg	1,000 mg/kg		---	2,500 mg/kg	20,000 mg/kg
BH-48	3/4/2022	4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	40	<49	40	2,000
BH-49	3/4/2022	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.9	<49	<49	2,300
BH-50	3/4/2022	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.9	<49	<49	1,100
BH-51	3/8/2022	4	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	36	62	98	2,400
BH-52	3/8/2022	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	16	<47	<47	1,500
BH-53	3/8/2022	4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.0	<45	<45	2,000
BH-54	3/8/2022	4	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<49	<49	1,900
Sidewall Confirmation Samples												
SW-1	3/2/22	Sidewall	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<8.8	<44	<44	110
SW-2	3/2/22	Sidewall	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.9	<50	<50	370
SW-3	3/2/22	Sidewall	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<45	<45	300
SW-4	3/2/22	Sidewall	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<49	290
SW-5	3/2/22	Sidewall	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<46	<46	<60
SW-6	3/3/22	Sidewall	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<49	<49	120
SW-7	3/3/22	Sidewall	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<10	<50	<50	130
SW-8	3/4/2022	Sidewall	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<10	<50	<50	280
SW-9	3/4/2022	Sidewall	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<50	<50	160
SW-10	3/7/2022	Sidewall	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.8	<49	<49	220
SW-11	3/7/2022	Sidewall	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<10	<50	<50	450

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. J - the target analytes was positively identified below the quantitation limit and above the detection limit
8. --- = not defined

Peach shaded cells indicate analytical samples that exceed the NMOC 19.15.29.13 (First 4 Feet) Table 1

Yellow shaded cells indicate analytical samples that exceed the NMOC 19.15.29.12 Table 1

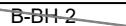
 Sample Point Excavated

Table 2
Daily Disposal Summary
Hornbaker BA #2
EOG Resources
Eddy, County, New Mexico

Date of Disposal	Total Pounds Disposed	Total Tons Disposed
3/2/2022	773,600	386.80
3/3/2022	488,560	244.28
3/4/2022	823,520	411.76
3/7/2022	1,300,240	650.12
3/8/2022	856,560	428.28
Project Total	4,242,480	2,121.24

Attachment A

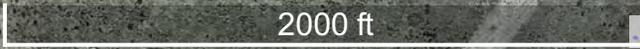
Site Characterization Documentation

Hornbaker BA #2

Distance from Depth to Water Well

Legend

-  0.25 Miles
-  Depth to Water Well
-  Hornbaker BA #2





STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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

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

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

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (%)	CHLORIDE (mg/kg)	
5	CL-SILTY CLAY, with sand, light brown, dry							
10								
12.00	CL-SILTY CLAY, light brown, dry	12.00						
15								
20								
25			Backfilled With Cement Grout					
30								
35	CL-CLAY, with silt and caliche interbedded	35.00						
38.00	CL-CLAY, with fine to medium grained sand, light brown, slightly moist	38.00						
40								
45								
50								
55								
60	CL-SILTY CLAY, with sand and rock interbedded throughout, light brown, slightly damp	60.00						

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



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

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

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

File: I:\LOG DATABASE\8-CHAR\11-1122-11229322 NIX11229322-CO.GPJ Library File: GHD_ENVIRO_V06.GLB Report: OVERBURDEN LOG Date: 1/13/22

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SOIL BORING	SAMPLE				
				NUMBER	INTERVAL	REC (%)	CHLORIDE (mg/kg)	
70	SP-SAND, with silt, fine to medium grained, light brown, slightly damp	70.00						
75								
80								
85								
90								
95								
100								
105								
110	END OF BOREHOLE @ 107.50ft BGS DTW Well was left open for 72 hours to determine presence or absence of groundwater by utilization of a water level meter. No groundwater was present.	107.50						
115								
120								
125								

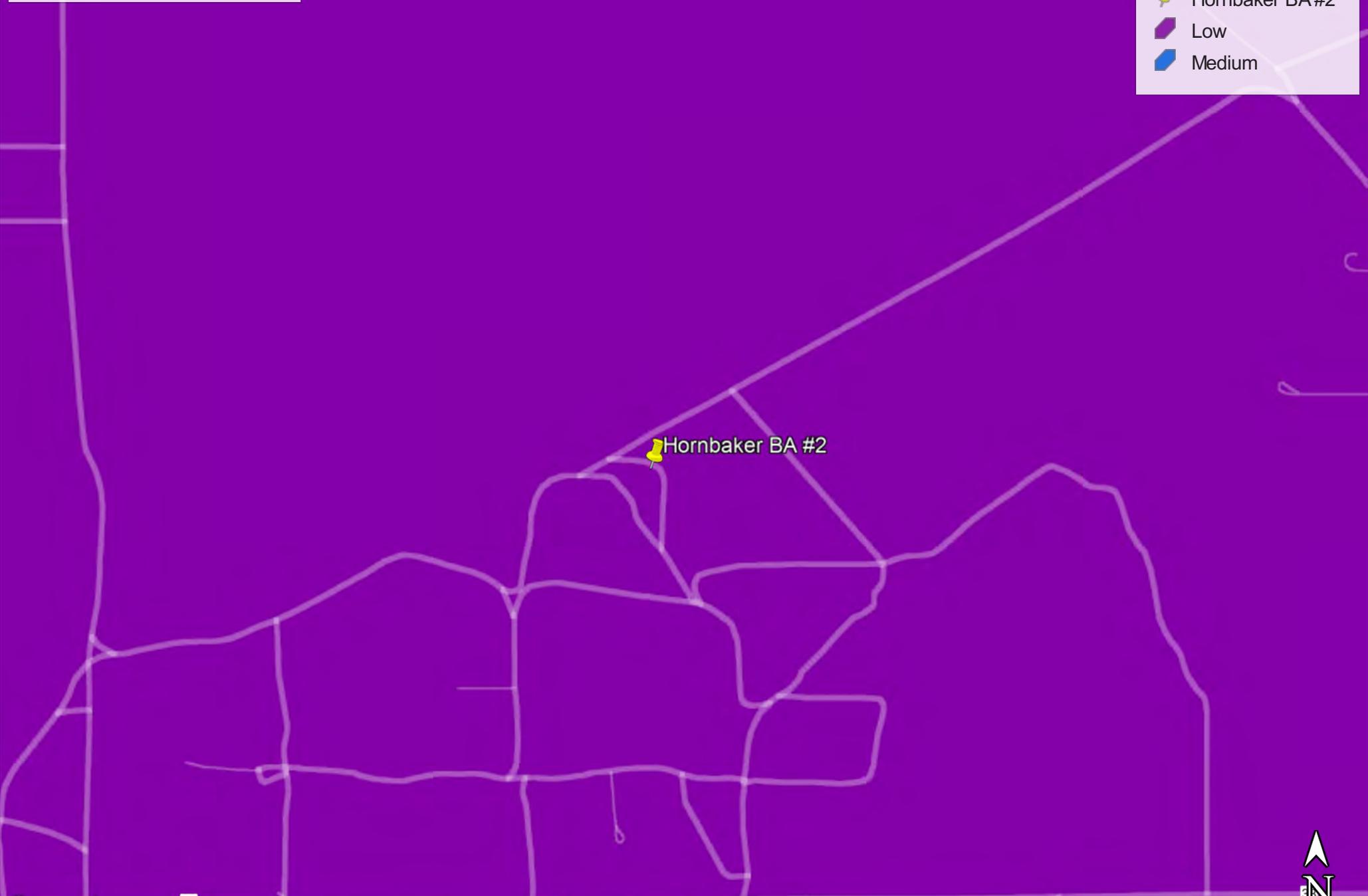
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

Hornbaker BA #2

Karst Potential Map

Legend

-  High
-  Hornbaker BA #2
-  Low
-  Medium

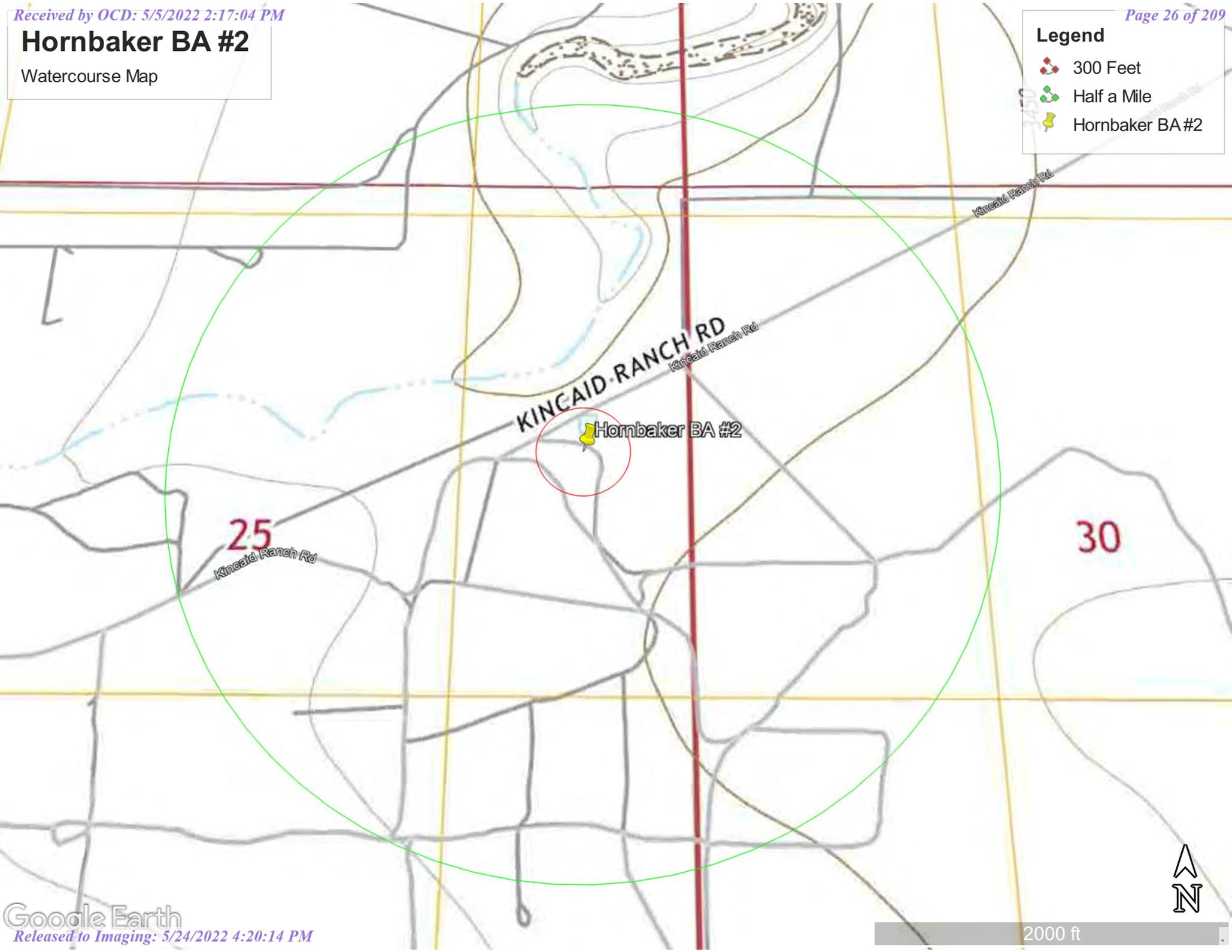


Hornbaker BA #2

Watercourse Map

Legend

-  300 Feet
-  Half a Mile
-  Hornbaker BA #2

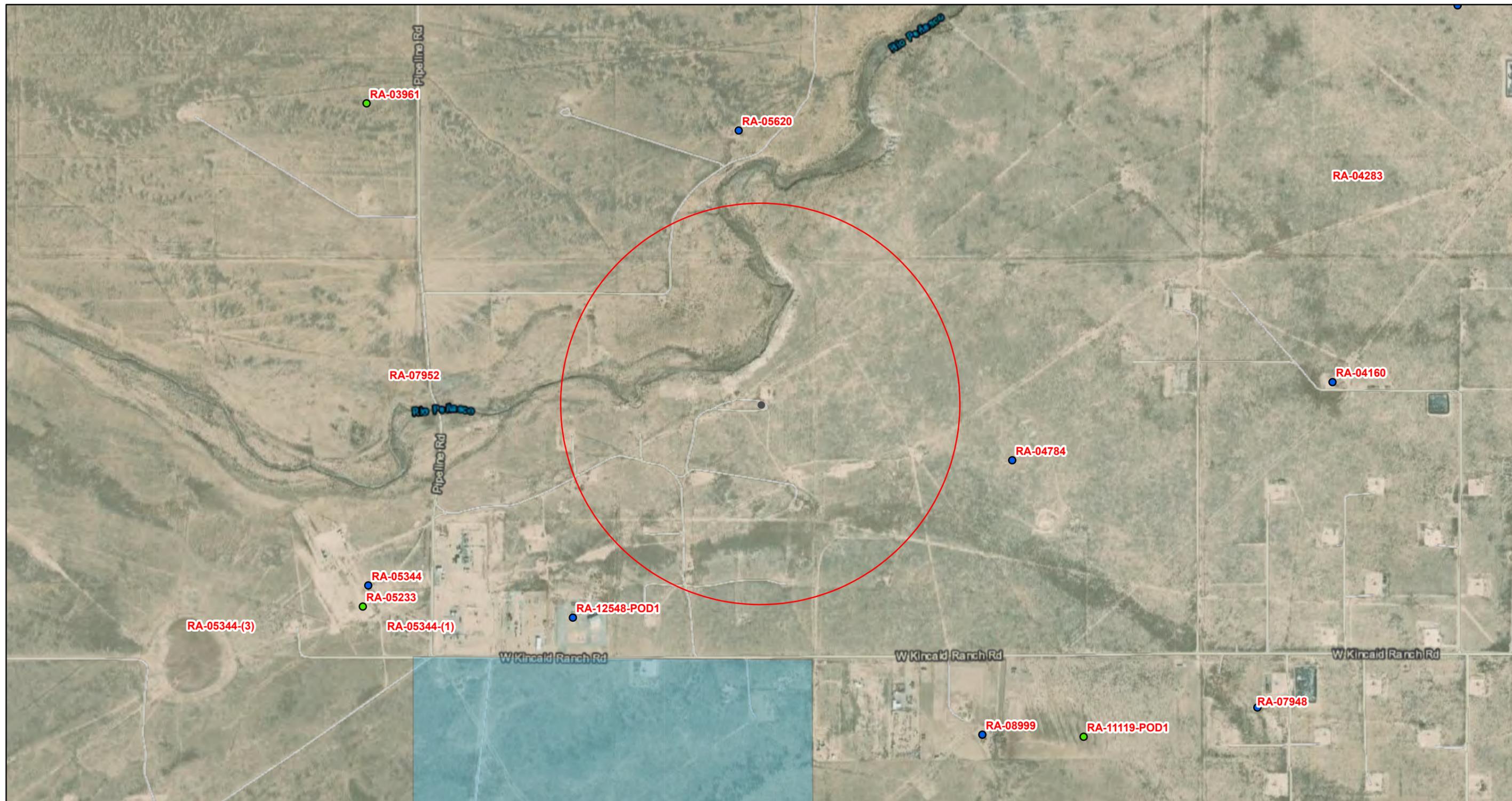


25

30



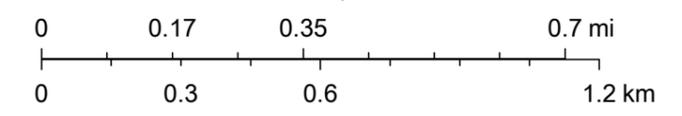
Hornbaker BA #2



1/17/2022, 9:44:30 AM

1:18,056

- GIS WATERS PODs
- Active
- Pending
- OSE District Boundary
- Water Right Regulations
- Closure Area
- New Mexico State Trust Lands
- Both Estates
- SiteBoundaries



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

National Flood Hazard Layer FIRMette



104°26'13"W 32°43'30"N



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**
 - Cross Sections with 1% Annual Chance 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
- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



Hornbaker BA #2



January 17, 2022

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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

Attachment B Photographic Log



Site Photograph

EOG Hornbaker BA #2 Release Site.

GHD | Report for EOG | 11228980



Site Photograph

EOG Hornbaker BA #2 Release Site.

GHD | Report for EOG | 11228980

Attachment C

Confirmation Sampling Notifications

Becky Haskell

From: Chase Settle <Chase_Settle@eogresources.com>
Sent: Thursday, February 24, 2022 11:32 AM
To: Becky Haskell; Zach Comino; Heath Boyd
Subject: FW: Hornbaker BA 2 (nAPP2125655405) Sampling Notification

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, February 24, 2022 10:26 AM
To: Robert.Hamlet@state.nm.us
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Bob Asher <Bob_Asher@eogresources.com>; Chase Settle <Chase_Settle@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Yvette Moore <Yvette_Moore@eogresources.com>
Subject: Hornbaker BA 2 (nAPP2125655405) Sampling Notification

Good morning,

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

Hornbaker BA 2
H-25-18S-25E
Eddy County, NM
nAPP2125655405

Sampling will begin at 8:00 a.m. on Wednesday, March 2, 2022.

Thank you,

Tina Huerta
Regulatory Specialist
Direct: 575.748.4168
Cell: 575.703.3121
Email: tina_huerta@eogresources.com



Becky Haskell

From: Chase Settle <Chase_Settle@eogresources.com>
Sent: Thursday, March 3, 2022 4:10 PM
To: Becky Haskell; Zach Comino; Tom Larson
Subject: FW: Hornbaker BA #2 (nAPP2125655405) Sampling Notification

From: Miriam Morales <Miriam_Morales@eogresources.com>
Sent: Thursday, March 3, 2022 2:53 PM
To: Robert.Hamlet@state.nm.us
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Chase Settle <Chase_Settle@eogresources.com>; Bob Asher <Bob_Asher@eogresources.com>; Yvette Moore <Yvette_Moore@eogresources.com>
Subject: Hornbaker BA #2 (nAPP2125655405) Sampling Notification

Good afternoon,

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

Hornbaker BA #2
H-25-18S-25E
Eddy County, NM
nAPP2125655405

Sampling will begin at 3:00 p.m. on Monday, March 7, 2022.

Thank you,

Miriam Morales

Appendix D

Laboratory Analytical Reports and Chain-of-Custody Documentation



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: Hornbaker BA 2

OrderNo.: 2109B81

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 28 sample(s) on 9/22/2021 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2109B81**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP1-2

Project: Hornbaker BA 2

Collection Date: 9/20/2021 7:50:00 AM

Lab ID: 2109B81-001

Matrix: SOIL

Received Date: 9/22/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1100	60		mg/Kg	20	9/27/2021 12:03:05 PM	62839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	410	98		mg/Kg	10	9/24/2021 3:56:51 PM	62781
Motor Oil Range Organics (MRO)	1100	490		mg/Kg	10	9/24/2021 3:56:51 PM	62781
Surr: DNOP	0	70-130	S	%Rec	10	9/24/2021 3:56:51 PM	62781
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/24/2021 2:04:27 AM	62766
Surr: BFB	99.0	70-130		%Rec	1	9/24/2021 2:04:27 AM	62766
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/24/2021 2:04:27 AM	62766
Toluene	ND	0.050		mg/Kg	1	9/24/2021 2:04:27 AM	62766
Ethylbenzene	ND	0.050		mg/Kg	1	9/24/2021 2:04:27 AM	62766
Xylenes, Total	ND	0.10		mg/Kg	1	9/24/2021 2:04:27 AM	62766
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	9/24/2021 2:04:27 AM	62766

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109B81**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP1-6

Project: Hornbaker BA 2

Collection Date: 9/20/2021 8:05:00 AM

Lab ID: 2109B81-002

Matrix: SOIL

Received Date: 9/22/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	680	60		mg/Kg	20	10/4/2021 7:38:43 AM	62988
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/1/2021 6:25:46 PM	62957
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/1/2021 6:25:46 PM	62957
Surr: DNOP	77.9	70-130		%Rec	1	10/1/2021 6:25:46 PM	62957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/4/2021 9:45:40 AM	62954
Surr: BFB	161	70-130	S	%Rec	1	10/4/2021 9:45:40 AM	62954
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/4/2021 9:45:40 AM	62954
Toluene	ND	0.047		mg/Kg	1	10/4/2021 9:45:40 AM	62954
Ethylbenzene	ND	0.047		mg/Kg	1	10/4/2021 9:45:40 AM	62954
Xylenes, Total	ND	0.093		mg/Kg	1	10/4/2021 9:45:40 AM	62954
Surr: 4-Bromofluorobenzene	136	70-130	S	%Rec	1	10/4/2021 9:45:40 AM	62954

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109B81**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP1-10

Project: Hornbaker BA 2

Collection Date: 9/20/2021 8:20:00 AM

Lab ID: 2109B81-003

Matrix: SOIL

Received Date: 9/22/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	750	60		mg/Kg	20	10/4/2021 8:15:56 AM	62988
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/1/2021 7:36:39 PM	62957
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/1/2021 7:36:39 PM	62957
Surr: DNOP	80.4	70-130		%Rec	1	10/1/2021 7:36:39 PM	62957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/4/2021 10:56:09 AM	62954
Surr: BFB	103	70-130		%Rec	1	10/4/2021 10:56:09 AM	62954
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/4/2021 10:56:09 AM	62954
Toluene	ND	0.049		mg/Kg	1	10/4/2021 10:56:09 AM	62954
Ethylbenzene	ND	0.049		mg/Kg	1	10/4/2021 10:56:09 AM	62954
Xylenes, Total	ND	0.099		mg/Kg	1	10/4/2021 10:56:09 AM	62954
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	1	10/4/2021 10:56:09 AM	62954

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109B81**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP1-12

Project: Hornbaker BA 2

Collection Date: 9/20/2021 8:30:00 AM

Lab ID: 2109B81-004

Matrix: SOIL

Received Date: 9/22/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	530	60		mg/Kg	20	10/4/2021 8:53:10 AM	62988
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	74	9.8		mg/Kg	1	10/4/2021 11:12:49 PM	62957
Motor Oil Range Organics (MRO)	98	49		mg/Kg	1	10/4/2021 11:12:49 PM	62957
Surr: DNOP	77.1	70-130		%Rec	1	10/4/2021 11:12:49 PM	62957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/4/2021 12:07:16 PM	62954
Surr: BFB	102	70-130		%Rec	1	10/4/2021 12:07:16 PM	62954
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/4/2021 12:07:16 PM	62954
Toluene	ND	0.047		mg/Kg	1	10/4/2021 12:07:16 PM	62954
Ethylbenzene	ND	0.047		mg/Kg	1	10/4/2021 12:07:16 PM	62954
Xylenes, Total	ND	0.094		mg/Kg	1	10/4/2021 12:07:16 PM	62954
Surr: 4-Bromofluorobenzene	84.5	70-130		%Rec	1	10/4/2021 12:07:16 PM	62954

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109B81**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP1-14

Project: Hornbaker BA 2

Collection Date: 9/20/2021 8:45:00 AM

Lab ID: 2109B81-005

Matrix: SOIL

Received Date: 9/22/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	190	60		mg/Kg	20	10/4/2021 9:05:35 AM	62988
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/1/2021 8:24:01 PM	62957
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/1/2021 8:24:01 PM	62957
Surr: DNOP	81.7	70-130		%Rec	1	10/1/2021 8:24:01 PM	62957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/4/2021 12:30:50 PM	62954
Surr: BFB	106	70-130		%Rec	1	10/4/2021 12:30:50 PM	62954
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/4/2021 12:30:50 PM	62954
Toluene	ND	0.048		mg/Kg	1	10/4/2021 12:30:50 PM	62954
Ethylbenzene	ND	0.048		mg/Kg	1	10/4/2021 12:30:50 PM	62954
Xylenes, Total	ND	0.095		mg/Kg	1	10/4/2021 12:30:50 PM	62954
Surr: 4-Bromofluorobenzene	87.6	70-130		%Rec	1	10/4/2021 12:30:50 PM	62954

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109B81**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP2-2

Project: Hornbaker BA 2

Collection Date: 9/20/2021 9:10:00 AM

Lab ID: 2109B81-006

Matrix: SOIL

Received Date: 9/22/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	410	60		mg/Kg	20	9/27/2021 12:15:30 PM	62839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/25/2021 4:37:42 AM	62781
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/25/2021 4:37:42 AM	62781
Surr: DNOP	92.0	70-130		%Rec	1	9/25/2021 4:37:42 AM	62781
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/24/2021 2:28:07 AM	62766
Surr: BFB	102	70-130		%Rec	1	9/24/2021 2:28:07 AM	62766
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/24/2021 2:28:07 AM	62766
Toluene	ND	0.048		mg/Kg	1	9/24/2021 2:28:07 AM	62766
Ethylbenzene	ND	0.048		mg/Kg	1	9/24/2021 2:28:07 AM	62766
Xylenes, Total	ND	0.096		mg/Kg	1	9/24/2021 2:28:07 AM	62766
Surr: 4-Bromofluorobenzene	89.0	70-130		%Rec	1	9/24/2021 2:28:07 AM	62766

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109B81**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP3-S

Project: Hornbaker BA 2

Collection Date: 9/20/2021 10:20:00 AM

Lab ID: 2109B81-011

Matrix: SOIL

Received Date: 9/22/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/27/2021 12:27:54 PM	62839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/29/2021 2:43:26 PM	62781
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/29/2021 2:43:26 PM	62781
Surr: DNOP	63.0	70-130	S	%Rec	1	9/29/2021 2:43:26 PM	62781
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/24/2021 2:51:47 AM	62766
Surr: BFB	99.3	70-130		%Rec	1	9/24/2021 2:51:47 AM	62766
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	9/24/2021 2:51:47 AM	62766
Toluene	ND	0.047		mg/Kg	1	9/24/2021 2:51:47 AM	62766
Ethylbenzene	ND	0.047		mg/Kg	1	9/24/2021 2:51:47 AM	62766
Xylenes, Total	ND	0.094		mg/Kg	1	9/24/2021 2:51:47 AM	62766
Surr: 4-Bromofluorobenzene	87.6	70-130		%Rec	1	9/24/2021 2:51:47 AM	62766

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109B81**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP3-2

Project: Hornbaker BA 2

Collection Date: 9/20/2021 10:35:00 AM

Lab ID: 2109B81-012

Matrix: SOIL

Received Date: 9/22/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/27/2021 12:40:19 PM	62839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/25/2021 5:02:06 AM	62781
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/25/2021 5:02:06 AM	62781
Surr: DNOP	74.3	70-130		%Rec	1	9/25/2021 5:02:06 AM	62781
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/24/2021 3:15:30 AM	62766
Surr: BFB	102	70-130		%Rec	1	9/24/2021 3:15:30 AM	62766
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/24/2021 3:15:30 AM	62766
Toluene	ND	0.050		mg/Kg	1	9/24/2021 3:15:30 AM	62766
Ethylbenzene	ND	0.050		mg/Kg	1	9/24/2021 3:15:30 AM	62766
Xylenes, Total	ND	0.099		mg/Kg	1	9/24/2021 3:15:30 AM	62766
Surr: 4-Bromofluorobenzene	91.2	70-130		%Rec	1	9/24/2021 3:15:30 AM	62766

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109B81**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP4-S

Project: Hornbaker BA 2

Collection Date: 9/20/2021 10:40:00 AM

Lab ID: 2109B81-013

Matrix: SOIL

Received Date: 9/22/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/27/2021 1:17:34 PM	62839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	30	9.8		mg/Kg	1	9/29/2021 2:30:58 PM	62781
Motor Oil Range Organics (MRO)	120	49		mg/Kg	1	9/29/2021 2:30:58 PM	62781
Surr: DNOP	84.9	70-130		%Rec	1	9/29/2021 2:30:58 PM	62781
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/24/2021 3:39:11 AM	62766
Surr: BFB	98.0	70-130		%Rec	1	9/24/2021 3:39:11 AM	62766
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/24/2021 3:39:11 AM	62766
Toluene	ND	0.047		mg/Kg	1	9/24/2021 3:39:11 AM	62766
Ethylbenzene	ND	0.047		mg/Kg	1	9/24/2021 3:39:11 AM	62766
Xylenes, Total	ND	0.094		mg/Kg	1	9/24/2021 3:39:11 AM	62766
Surr: 4-Bromofluorobenzene	86.1	70-130		%Rec	1	9/24/2021 3:39:11 AM	62766

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109B81**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP4-2

Project: Hornbaker BA 2

Collection Date: 9/20/2021 10:50:00 AM

Lab ID: 2109B81-014

Matrix: SOIL

Received Date: 9/22/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	120	60		mg/Kg	20	9/27/2021 1:29:59 PM	62839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/25/2021 5:26:21 AM	62781
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/25/2021 5:26:21 AM	62781
Surr: DNOP	86.3	70-130		%Rec	1	9/25/2021 5:26:21 AM	62781
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/24/2021 4:02:38 AM	62766
Surr: BFB	101	70-130		%Rec	1	9/24/2021 4:02:38 AM	62766
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/24/2021 4:02:38 AM	62766
Toluene	ND	0.047		mg/Kg	1	9/24/2021 4:02:38 AM	62766
Ethylbenzene	ND	0.047		mg/Kg	1	9/24/2021 4:02:38 AM	62766
Xylenes, Total	ND	0.094		mg/Kg	1	9/24/2021 4:02:38 AM	62766
Surr: 4-Bromofluorobenzene	89.3	70-130		%Rec	1	9/24/2021 4:02:38 AM	62766

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109B81**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP5-2

Project: Hornbaker BA 2

Collection Date: 9/20/2021 11:00:00 AM

Lab ID: 2109B81-015

Matrix: SOIL

Received Date: 9/22/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1300	60		mg/Kg	20	9/27/2021 1:42:23 PM	62839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/25/2021 5:50:41 AM	62781
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/25/2021 5:50:41 AM	62781
Surr: DNOP	100	70-130		%Rec	1	9/25/2021 5:50:41 AM	62781
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/24/2021 4:26:08 AM	62766
Surr: BFB	101	70-130		%Rec	1	9/24/2021 4:26:08 AM	62766
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/24/2021 4:26:08 AM	62766
Toluene	ND	0.050		mg/Kg	1	9/24/2021 4:26:08 AM	62766
Ethylbenzene	ND	0.050		mg/Kg	1	9/24/2021 4:26:08 AM	62766
Xylenes, Total	ND	0.099		mg/Kg	1	9/24/2021 4:26:08 AM	62766
Surr: 4-Bromofluorobenzene	88.8	70-130		%Rec	1	9/24/2021 4:26:08 AM	62766

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109B81**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP5-6

Project: Hornbaker BA 2

Collection Date: 9/20/2021 11:10:00 AM

Lab ID: 2109B81-016

Matrix: SOIL

Received Date: 9/22/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	710	61		mg/Kg	20	9/27/2021 1:54:48 PM	62839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/24/2021 11:11:41 AM	62799
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/24/2021 11:11:41 AM	62799
Surr: DNOP	103	70-130		%Rec	1	9/24/2021 11:11:41 AM	62799
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/24/2021 1:46:26 PM	62767
Surr: BFB	101	70-130		%Rec	1	9/24/2021 1:46:26 PM	62767
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/24/2021 1:46:26 PM	62767
Toluene	ND	0.048		mg/Kg	1	9/24/2021 1:46:26 PM	62767
Ethylbenzene	ND	0.048		mg/Kg	1	9/24/2021 1:46:26 PM	62767
Xylenes, Total	ND	0.095		mg/Kg	1	9/24/2021 1:46:26 PM	62767
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	9/24/2021 1:46:26 PM	62767

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109B81**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP5-8

Project: Hornbaker BA 2

Collection Date: 9/20/2021 11:20:00 AM

Lab ID: 2109B81-017

Matrix: SOIL

Received Date: 9/22/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	360	60		mg/Kg	20	10/4/2021 9:42:48 AM	62988
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/1/2021 8:47:42 PM	62957
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/1/2021 8:47:42 PM	62957
Surr: DNOP	83.4	70-130		%Rec	1	10/1/2021 8:47:42 PM	62957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/4/2021 12:54:33 PM	62954
Surr: BFB	106	70-130		%Rec	1	10/4/2021 12:54:33 PM	62954
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/4/2021 12:54:33 PM	62954
Toluene	ND	0.047		mg/Kg	1	10/4/2021 12:54:33 PM	62954
Ethylbenzene	ND	0.047		mg/Kg	1	10/4/2021 12:54:33 PM	62954
Xylenes, Total	ND	0.095		mg/Kg	1	10/4/2021 12:54:33 PM	62954
Surr: 4-Bromofluorobenzene	87.7	70-130		%Rec	1	10/4/2021 12:54:33 PM	62954

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109B81**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP6-2

Project: Hornbaker BA 2

Collection Date: 9/20/2021 12:40:00 PM

Lab ID: 2109B81-018

Matrix: SOIL

Received Date: 9/22/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1000	61		mg/Kg	20	9/27/2021 2:07:12 PM	62839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/27/2021 12:40:47 PM	62799
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/27/2021 12:40:47 PM	62799
Surr: DNOP	75.8	70-130		%Rec	1	9/27/2021 12:40:47 PM	62799
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/24/2021 2:56:55 PM	62767
Surr: BFB	102	70-130		%Rec	1	9/24/2021 2:56:55 PM	62767
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/24/2021 2:56:55 PM	62767
Toluene	ND	0.047		mg/Kg	1	9/24/2021 2:56:55 PM	62767
Ethylbenzene	ND	0.047		mg/Kg	1	9/24/2021 2:56:55 PM	62767
Xylenes, Total	ND	0.094		mg/Kg	1	9/24/2021 2:56:55 PM	62767
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	9/24/2021 2:56:55 PM	62767

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109B81**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP6-6

Project: Hornbaker BA 2

Collection Date: 9/20/2021 12:50:00 PM

Lab ID: 2109B81-019

Matrix: SOIL

Received Date: 9/22/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	390	60		mg/Kg	20	9/27/2021 2:19:37 PM	62839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/24/2021 11:35:58 AM	62799
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/24/2021 11:35:58 AM	62799
Surr: DNOP	90.7	70-130		%Rec	1	9/24/2021 11:35:58 AM	62799
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/24/2021 4:07:51 PM	62767
Surr: BFB	100	70-130		%Rec	1	9/24/2021 4:07:51 PM	62767
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/24/2021 4:07:51 PM	62767
Toluene	ND	0.048		mg/Kg	1	9/24/2021 4:07:51 PM	62767
Ethylbenzene	ND	0.048		mg/Kg	1	9/24/2021 4:07:51 PM	62767
Xylenes, Total	ND	0.097		mg/Kg	1	9/24/2021 4:07:51 PM	62767
Surr: 4-Bromofluorobenzene	88.7	70-130		%Rec	1	9/24/2021 4:07:51 PM	62767

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109B81**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP7-S

Project: Hornbaker BA 2

Collection Date: 9/20/2021 1:10:00 PM

Lab ID: 2109B81-021

Matrix: SOIL

Received Date: 9/22/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/27/2021 2:32:02 PM	62839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/24/2021 12:00:16 PM	62799
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/24/2021 12:00:16 PM	62799
Surr: DNOP	92.4	70-130		%Rec	1	9/24/2021 12:00:16 PM	62799
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/24/2021 4:31:36 PM	62767
Surr: BFB	103	70-130		%Rec	1	9/24/2021 4:31:36 PM	62767
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	9/24/2021 4:31:36 PM	62767
Toluene	ND	0.046		mg/Kg	1	9/24/2021 4:31:36 PM	62767
Ethylbenzene	ND	0.046		mg/Kg	1	9/24/2021 4:31:36 PM	62767
Xylenes, Total	ND	0.093		mg/Kg	1	9/24/2021 4:31:36 PM	62767
Surr: 4-Bromofluorobenzene	89.9	70-130		%Rec	1	9/24/2021 4:31:36 PM	62767

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109B81**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP7-2

Project: Hornbaker BA 2

Collection Date: 9/20/2021 1:20:00 PM

Lab ID: 2109B81-022

Matrix: SOIL

Received Date: 9/22/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	320	60		mg/Kg	20	9/27/2021 2:44:27 PM	62839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/24/2021 12:24:26 PM	62799
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/24/2021 12:24:26 PM	62799
Surr: DNOP	94.9	70-130		%Rec	1	9/24/2021 12:24:26 PM	62799
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/24/2021 4:55:13 PM	62767
Surr: BFB	103	70-130		%Rec	1	9/24/2021 4:55:13 PM	62767
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	9/24/2021 4:55:13 PM	62767
Toluene	ND	0.046		mg/Kg	1	9/24/2021 4:55:13 PM	62767
Ethylbenzene	ND	0.046		mg/Kg	1	9/24/2021 4:55:13 PM	62767
Xylenes, Total	ND	0.092		mg/Kg	1	9/24/2021 4:55:13 PM	62767
Surr: 4-Bromofluorobenzene	90.0	70-130		%Rec	1	9/24/2021 4:55:13 PM	62767

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109B81**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP8-2

Project: Hornbaker BA 2

Collection Date: 9/20/2021 1:40:00 PM

Lab ID: 2109B81-023

Matrix: SOIL

Received Date: 9/22/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1200	60		mg/Kg	20	9/28/2021 10:16:31 AM	62867
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	9/24/2021 12:48:43 PM	62799
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/24/2021 12:48:43 PM	62799
Surr: DNOP	99.1	70-130		%Rec	1	9/24/2021 12:48:43 PM	62799
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/24/2021 5:18:45 PM	62767
Surr: BFB	102	70-130		%Rec	1	9/24/2021 5:18:45 PM	62767
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/24/2021 5:18:45 PM	62767
Toluene	ND	0.048		mg/Kg	1	9/24/2021 5:18:45 PM	62767
Ethylbenzene	ND	0.048		mg/Kg	1	9/24/2021 5:18:45 PM	62767
Xylenes, Total	ND	0.096		mg/Kg	1	9/24/2021 5:18:45 PM	62767
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	9/24/2021 5:18:45 PM	62767

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109B81**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP8-6

Project: Hornbaker BA 2

Collection Date: 9/20/2021 1:50:00 PM

Lab ID: 2109B81-024

Matrix: SOIL

Received Date: 9/22/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1200	60		mg/Kg	20	9/28/2021 10:53:45 AM	62867
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	64	9.7		mg/Kg	1	9/27/2021 7:05:57 PM	62799
Motor Oil Range Organics (MRO)	160	48		mg/Kg	1	9/27/2021 7:05:57 PM	62799
Surr: DNOP	89.3	70-130		%Rec	1	9/27/2021 7:05:57 PM	62799
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/24/2021 6:53:03 PM	62767
Surr: BFB	102	70-130		%Rec	1	9/24/2021 6:53:03 PM	62767
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/24/2021 6:53:03 PM	62767
Toluene	ND	0.049		mg/Kg	1	9/24/2021 6:53:03 PM	62767
Ethylbenzene	ND	0.049		mg/Kg	1	9/24/2021 6:53:03 PM	62767
Xylenes, Total	ND	0.098		mg/Kg	1	9/24/2021 6:53:03 PM	62767
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	9/24/2021 6:53:03 PM	62767

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109B81**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP8-12

Project: Hornbaker BA 2

Collection Date: 9/20/2021 2:10:00 PM

Lab ID: 2109B81-025

Matrix: SOIL

Received Date: 9/22/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	610	60		mg/Kg	20	9/28/2021 11:06:10 AM	62867
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/24/2021 1:37:15 PM	62799
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/24/2021 1:37:15 PM	62799
Surr: DNOP	98.3	70-130		%Rec	1	9/24/2021 1:37:15 PM	62799
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/24/2021 7:16:33 PM	62767
Surr: BFB	103	70-130		%Rec	1	9/24/2021 7:16:33 PM	62767
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/24/2021 7:16:33 PM	62767
Toluene	ND	0.048		mg/Kg	1	9/24/2021 7:16:33 PM	62767
Ethylbenzene	ND	0.048		mg/Kg	1	9/24/2021 7:16:33 PM	62767
Xylenes, Total	ND	0.097		mg/Kg	1	9/24/2021 7:16:33 PM	62767
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	9/24/2021 7:16:33 PM	62767

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109B81**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP8-18

Project: Hornbaker BA 2

Collection Date: 9/20/2021 2:50:00 PM

Lab ID: 2109B81-027

Matrix: SOIL

Received Date: 9/22/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	860	61		mg/Kg	20	10/4/2021 9:55:13 AM	62988
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	10/1/2021 9:11:17 PM	62957
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/1/2021 9:11:17 PM	62957
Surr: DNOP	78.9	70-130		%Rec	1	10/1/2021 9:11:17 PM	62957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/4/2021 1:18:27 PM	62954
Surr: BFB	108	70-130		%Rec	1	10/4/2021 1:18:27 PM	62954
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/4/2021 1:18:27 PM	62954
Toluene	ND	0.048		mg/Kg	1	10/4/2021 1:18:27 PM	62954
Ethylbenzene	ND	0.048		mg/Kg	1	10/4/2021 1:18:27 PM	62954
Xylenes, Total	ND	0.097		mg/Kg	1	10/4/2021 1:18:27 PM	62954
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	10/4/2021 1:18:27 PM	62954

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109B81**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP8-20

Project: Hornbaker BA 2

Collection Date: 9/20/2021 3:05:00 PM

Lab ID: 2109B81-028

Matrix: SOIL

Received Date: 9/22/2021 7:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	490	60		mg/Kg	20	9/28/2021 11:18:35 AM	62867
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/24/2021 2:01:32 PM	62799
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/24/2021 2:01:32 PM	62799
Surr: DNOP	98.5	70-130		%Rec	1	9/24/2021 2:01:32 PM	62799
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/24/2021 7:40:02 PM	62767
Surr: BFB	102	70-130		%Rec	1	9/24/2021 7:40:02 PM	62767
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/24/2021 7:40:02 PM	62767
Toluene	ND	0.049		mg/Kg	1	9/24/2021 7:40:02 PM	62767
Ethylbenzene	ND	0.049		mg/Kg	1	9/24/2021 7:40:02 PM	62767
Xylenes, Total	ND	0.098		mg/Kg	1	9/24/2021 7:40:02 PM	62767
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	9/24/2021 7:40:02 PM	62767

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109B81

14-Oct-21

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: MB-62839	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 62839	RunNo: 81597								
Prep Date: 9/27/2021	Analysis Date: 9/27/2021	SeqNo: 2883462	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-62839	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 62839	RunNo: 81597								
Prep Date: 9/27/2021	Analysis Date: 9/27/2021	SeqNo: 2883463	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.5	90	110			

Sample ID: MB-62867	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 62867	RunNo: 81605								
Prep Date: 9/28/2021	Analysis Date: 9/28/2021	SeqNo: 2885988	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-62867	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 62867	RunNo: 81605								
Prep Date: 9/28/2021	Analysis Date: 9/28/2021	SeqNo: 2885989	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.1	90	110			

Sample ID: MB-62988	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 62988	RunNo: 81780								
Prep Date: 10/2/2021	Analysis Date: 10/4/2021	SeqNo: 2892413	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-62988	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 62988	RunNo: 81780								
Prep Date: 10/2/2021	Analysis Date: 10/4/2021	SeqNo: 2892414	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.4	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- 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#: 2109B81

14-Oct-21

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: LCS-62781	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 62781	RunNo: 81579								
Prep Date: 9/23/2021	Analysis Date: 9/25/2021	SeqNo: 2883289	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.5	68.9	135			
Surr: DNOP	4.9		5.000		98.3	70	130			

Sample ID: LCS-62799	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 62799	RunNo: 81579								
Prep Date: 9/23/2021	Analysis Date: 9/24/2021	SeqNo: 2883290	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.0	68.9	135			
Surr: DNOP	4.6		5.000		91.3	70	130			

Sample ID: MB-62781	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 62781	RunNo: 81579								
Prep Date: 9/23/2021	Analysis Date: 9/25/2021	SeqNo: 2883292	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	70	130			

Sample ID: MB-62799	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 62799	RunNo: 81579								
Prep Date: 9/23/2021	Analysis Date: 9/24/2021	SeqNo: 2883293	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	70	130			

Sample ID: 2109B81-018AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP6-2	Batch ID: 62799	RunNo: 81594								
Prep Date: 9/23/2021	Analysis Date: 9/27/2021	SeqNo: 2883969	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.6	47.80	0	90.7	39.3	155			
Surr: DNOP	3.7		4.780		76.9	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- 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#: 2109B81

14-Oct-21

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: 2109B81-018AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP6-2	Batch ID: 62799	RunNo: 81594								
Prep Date: 9/23/2021	Analysis Date: 9/27/2021	SeqNo: 2883970			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	8.9	44.60	0	95.8	39.3	155	1.45	23.4	
Surr: DNOP	4.2		4.460		94.5	70	130	0	0	

Sample ID: MB-62957	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 62957	RunNo: 81750								
Prep Date: 9/30/2021	Analysis Date: 10/1/2021	SeqNo: 2890617			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.0	70	130			

Sample ID: LCS-62957	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 62957	RunNo: 81750								
Prep Date: 9/30/2021	Analysis Date: 10/1/2021	SeqNo: 2890618			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.7	68.9	135			
Surr: DNOP	4.9		5.000		98.9	70	130			

Sample ID: 2109B81-002AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP1-6	Batch ID: 62957	RunNo: 81750								
Prep Date: 9/30/2021	Analysis Date: 10/1/2021	SeqNo: 2890626			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	9.7	48.50	0	77.7	39.3	155			
Surr: DNOP	3.4		4.850		69.7	70	130			S

Sample ID: 2109B81-002AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP1-6	Batch ID: 62957	RunNo: 81750								
Prep Date: 9/30/2021	Analysis Date: 10/1/2021	SeqNo: 2890640			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.6	47.76	0	85.1	39.3	155	7.51	23.4	
Surr: DNOP	3.6		4.776		75.3	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 Quantitative 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#: 2109B81

14-Oct-21

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: MB-63053	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 63053	RunNo: 81862								
Prep Date: 10/5/2021	Analysis Date: 10/9/2021	SeqNo: 2900885	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.6		10.00		95.9	70	130			

Sample ID: LCS-63053	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 63053	RunNo: 81862								
Prep Date: 10/5/2021	Analysis Date: 10/9/2021	SeqNo: 2900886	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.5		5.000		111	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- 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#: 2109B81

14-Oct-21

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: mb-62766	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 62766		RunNo: 81527							
Prep Date: 9/22/2021	Analysis Date: 9/23/2021		SeqNo: 2880290		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-62766	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 62766		RunNo: 81527							
Prep Date: 9/22/2021	Analysis Date: 9/23/2021		SeqNo: 2880291		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		115	70	130			

Sample ID: mb-62767	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 62767		RunNo: 81560							
Prep Date: 9/22/2021	Analysis Date: 9/24/2021		SeqNo: 2882088		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		105	70	130			

Sample ID: lcs-62767	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 62767		RunNo: 81560							
Prep Date: 9/22/2021	Analysis Date: 9/24/2021		SeqNo: 2882089		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	113	78.6	131			
Surr: BFB	1200		1000		115	70	130			

Sample ID: 2109b81-016ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: TP5-6	Batch ID: 62767		RunNo: 81560							
Prep Date: 9/22/2021	Analysis Date: 9/24/2021		SeqNo: 2882091		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.8	24.06	0	110	61.3	114			
Surr: BFB	1100		962.5		110	70	130			

Sample ID: 2109b81-016amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: TP5-6	Batch ID: 62767		RunNo: 81560							
Prep Date: 9/22/2021	Analysis Date: 9/24/2021		SeqNo: 2882092		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 Quantitative 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#: 2109B81

14-Oct-21

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: 2109b81-016amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: TP5-6	Batch ID: 62767	RunNo: 81560								
Prep Date: 9/22/2021	Analysis Date: 9/24/2021	SeqNo: 2882092	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.7	23.50	0	111	61.3	114	1.00	20	
Surr: BFB	1100		939.8		114	70	130	0	0	

Sample ID: mb-62954	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 62954	RunNo: 81769								
Prep Date: 9/30/2021	Analysis Date: 10/4/2021	SeqNo: 2891593	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-62954	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 62954	RunNo: 81769								
Prep Date: 9/30/2021	Analysis Date: 10/4/2021	SeqNo: 2891594	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	78.6	131			
Surr: BFB	1100		1000		110	70	130			

Sample ID: 2109b81-002ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: TP1-6	Batch ID: 62954	RunNo: 81769								
Prep Date: 9/30/2021	Analysis Date: 10/4/2021	SeqNo: 2891596	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.8	23.88	0	108	61.3	114			
Surr: BFB	1100		955.1		118	70	130			

Sample ID: 2109b81-002amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: TP1-6	Batch ID: 62954	RunNo: 81769								
Prep Date: 9/30/2021	Analysis Date: 10/4/2021	SeqNo: 2891597	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.7	23.67	0	108	61.3	114	1.08	20	
Surr: BFB	1100		947.0		114	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- 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#: 2109B81

14-Oct-21

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: mb-62766	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 62766	RunNo: 81527								
Prep Date: 9/22/2021	Analysis Date: 9/23/2021	SeqNo: 2880326	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		89.5	70	130			

Sample ID: LCS-62766	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 62766	RunNo: 81527								
Prep Date: 9/22/2021	Analysis Date: 9/23/2021	SeqNo: 2880327	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	96.2	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.4	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.3	70	130			

Sample ID: mb-62767	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 62767	RunNo: 81560								
Prep Date: 9/22/2021	Analysis Date: 9/24/2021	SeqNo: 2882133	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	0.93		1.000		93.3	70	130			

Sample ID: LCS-62767	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 62767	RunNo: 81560								
Prep Date: 9/22/2021	Analysis Date: 9/24/2021	SeqNo: 2882134	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.4	80	120			
Toluene	0.93	0.050	1.000	0	92.7	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	91.9	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.3	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 Quantitative 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#: 2109B81

14-Oct-21

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: 2109b81-018ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP6-2	Batch ID: 62767	RunNo: 81560								
Prep Date: 9/22/2021	Analysis Date: 9/24/2021	SeqNo: 2882137	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	0.9901	0	91.7	80	120			
Toluene	0.94	0.050	0.9901	0	95.3	80	120			
Ethylbenzene	0.96	0.050	0.9901	0	97.2	80	120			
Xylenes, Total	2.8	0.099	2.970	0	95.6	80	120			
Surr: 4-Bromofluorobenzene	0.90		0.9901		91.2	70	130			

Sample ID: 2109b81-018amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP6-2	Batch ID: 62767	RunNo: 81560								
Prep Date: 9/22/2021	Analysis Date: 9/24/2021	SeqNo: 2882138	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	0.9940	0	87.0	80	120	4.90	20	
Toluene	0.89	0.050	0.9940	0	89.4	80	120	5.92	20	
Ethylbenzene	0.90	0.050	0.9940	0	90.2	80	120	7.11	20	
Xylenes, Total	2.7	0.099	2.982	0	88.9	80	120	6.83	20	
Surr: 4-Bromofluorobenzene	0.93		0.9940		93.7	70	130	0	0	

Sample ID: mb-62954	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 62954	RunNo: 81769								
Prep Date: 9/30/2021	Analysis Date: 10/4/2021	SeqNo: 2891656	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		84.8	70	130			

Sample ID: LCS-62954	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 62954	RunNo: 81769								
Prep Date: 9/30/2021	Analysis Date: 10/4/2021	SeqNo: 2891657	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	97.1	80	120			
Toluene	0.98	0.050	1.000	0	98.2	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.1	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		87.7	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 Quantitative 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#: 2109B81

14-Oct-21

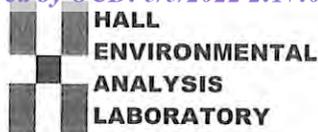
Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: 2109b81-003ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP1-10	Batch ID: 62954	RunNo: 81769								
Prep Date: 9/30/2021	Analysis Date: 10/4/2021	SeqNo: 2891660	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.023	0.9390	0	89.6	80	120			
Toluene	0.86	0.047	0.9390	0	91.1	80	120			
Ethylbenzene	0.85	0.047	0.9390	0	90.4	80	120			
Xylenes, Total	2.5	0.094	2.817	0	89.1	80	120			
Surr: 4-Bromofluorobenzene	0.81		0.9390		85.9	70	130			

Sample ID: 2109b81-003amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP1-10	Batch ID: 62954	RunNo: 81769								
Prep Date: 9/30/2021	Analysis Date: 10/4/2021	SeqNo: 2891661	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.024	0.9606	0	86.0	80	120	1.74	20	
Toluene	0.84	0.048	0.9606	0	87.4	80	120	1.90	20	
Ethylbenzene	0.85	0.048	0.9606	0	88.0	80	120	0.456	20	
Xylenes, Total	2.5	0.096	2.882	0	86.4	80	120	0.816	20	
Surr: 4-Bromofluorobenzene	0.83		0.9606		85.9	70	130	0	0	

Qualifiers:

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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2109B81

RcptNo: 1

Received By: Cheyenne Cason

9/22/2021 7:10:00 AM

Handwritten signature

Completed By: Sean Livingston

9/22/2021 9:11:15 AM

Handwritten signature

Reviewed By: Handwritten signature

9/22/21

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

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

Adjusted?

Checked by: JR 9/22/21

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 1.1, Good, [], [], []

Chain-of-Custody Record

Client: GHD
 Mailing Address:
 324 W. Main St. Suite 108, Artesia NM 88210
 Phone #: (505)377-4218
 email or Fax#: Becky.Haskell@ghd.com

Turn-Around Time:
 Standard Rush
 Project Name:
 Project #:
 Project Manager:
 Project Manager:
 Tom Larson
 Sampler: Zach Comino
 On Ice: Yes No
 # of Coolers: 1
 Cooler Temp (including CP): 1.7 - 0.1 - 1.1

2 of 3
HALL ENVIRONMENTAL ANALYSIS LABORATORY
 www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Project Name:
 Project #:
 Project Manager:
 Tom Larson
 Sampler: Zach Comino
 On Ice: Yes No
 # of Coolers: 1
 Cooler Temp (including CP): 1.7 - 0.1 - 1.1

QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance Other
 NELAC Other
 EDD (Type)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
09/20/21	1040	S	TP4-S	J		013
	1050		TP4-2			014
	1100		TP5-2			015
	1110		TP5-6			016
	1120		TP5-8			017
	1240		TP6-2			018
	1250		TP6-6			019
	1700		TP6-8			020
	1310		TP7-5			021
	1320		TP7-2			022
	1340		TP8-2			023
	1350		TP8-6			024

Analysis Request
 BTEX / MTBE / TMBs (8021)
 TPH:8015D(GRO / DRO / MRO)
 8081 Pesticides/8082 PCBs
 EDB (Method 504.1)
 PAHs by 8310 or 8270SIMS
 RCRA 8 Metals
 Cl, F, Br, NO₃, NO₂, PO₄, SO₄
 8260 (VOA)
 8270 (Semi-VOA)
 Total Coliform (Present/Absent)
 Calcium Chloride 500
 Air Test for 15 samples

Relinquished by: Zach Comino / Jhc
 Relinquished by: Jhc
 Date: 09/20/21
 Time: 0800
 Date: 9/21/21
 Time: 1900

Received by: Jhc
 Received by: Jhc
 Date: 9/21/21
 Date: 9/21/21
 Time: 0710
 Time: 0710

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)

Date	Time	Matrix	Sample Name
09/20/21	1400	S	TP8-12
	1420		TP8-16
	1450		TP8-18
	1505		TP8-20

Turn-Around Time:

Standard Rush

Project Name:

Humboldt BA #2

Project #:

11228980

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 1-2-0.1=1.1

Container Type and #

Preservative Type

HEAL No.

025

026

027

028

Date: 09/20/21 0800

Relinquished by: Zach Comino

Received by: [Signature]

Date: 9/21/21 800

Via: Courier

Date: 9/21/21 1800

Relinquished by: [Signature]

Received by: [Signature]

Date: 9/21/21 0710

Via: Courier

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Analysis Request	Results
BTEX / MTBE / TMB's (8021)	✓
(PH: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)	✓

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
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: Hornbaker BA 2

OrderNo.: 2109C66

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 22 sample(s) on 9/23/2021 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued September 30, 2021.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2109C66**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP9-2

Project: Hornbaker BA 2

Collection Date: 9/21/2021 7:35:00 AM

Lab ID: 2109C66-001

Matrix: SOIL

Received Date: 9/23/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2200	150		mg/Kg	50	9/29/2021 10:16:24 AM	62881
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	56	9.9		mg/Kg	1	9/28/2021 4:20:07 PM	62795
Motor Oil Range Organics (MRO)	270	49		mg/Kg	1	9/28/2021 4:20:07 PM	62795
Surr: DNOP	111	70-130		%Rec	1	9/28/2021 4:20:07 PM	62795
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/24/2021 9:59:00 AM	62793
Surr: BFB	90.6	70-130		%Rec	1	9/24/2021 9:59:00 AM	62793
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	9/24/2021 9:59:00 AM	62793
Toluene	ND	0.047		mg/Kg	1	9/24/2021 9:59:00 AM	62793
Ethylbenzene	ND	0.047		mg/Kg	1	9/24/2021 9:59:00 AM	62793
Xylenes, Total	ND	0.094		mg/Kg	1	9/24/2021 9:59:00 AM	62793
Surr: 4-Bromofluorobenzene	76.4	70-130		%Rec	1	9/24/2021 9:59:00 AM	62793

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109C66**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP9-6

Project: Hornbaker BA 2

Collection Date: 9/21/2021 7:45:00 AM

Lab ID: 2109C66-002

Matrix: SOIL

Received Date: 9/23/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1500	59		mg/Kg	20	10/4/2021 10:07:37 AM	62988
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	10/1/2021 9:34:53 PM	62957
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/1/2021 9:34:53 PM	62957
Surr: DNOP	71.9	70-130		%Rec	1	10/1/2021 9:34:53 PM	62957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/4/2021 1:42:08 PM	62954
Surr: BFB	106	70-130		%Rec	1	10/4/2021 1:42:08 PM	62954
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/4/2021 1:42:08 PM	62954
Toluene	ND	0.046		mg/Kg	1	10/4/2021 1:42:08 PM	62954
Ethylbenzene	ND	0.046		mg/Kg	1	10/4/2021 1:42:08 PM	62954
Xylenes, Total	ND	0.093		mg/Kg	1	10/4/2021 1:42:08 PM	62954
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	1	10/4/2021 1:42:08 PM	62954

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109C66**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP9-10

Project: Hornbaker BA 2

Collection Date: 9/21/2021 8:00:00 AM

Lab ID: 2109C66-003

Matrix: SOIL

Received Date: 9/23/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1300	60		mg/Kg	20	10/4/2021 10:20:02 AM	62988
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/1/2021 9:58:31 PM	62957
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/1/2021 9:58:31 PM	62957
Surr: DNOP	83.8	70-130		%Rec	1	10/1/2021 9:58:31 PM	62957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/4/2021 2:05:32 PM	62954
Surr: BFB	105	70-130		%Rec	1	10/4/2021 2:05:32 PM	62954
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/4/2021 2:05:32 PM	62954
Toluene	ND	0.049		mg/Kg	1	10/4/2021 2:05:32 PM	62954
Ethylbenzene	ND	0.049		mg/Kg	1	10/4/2021 2:05:32 PM	62954
Xylenes, Total	ND	0.099		mg/Kg	1	10/4/2021 2:05:32 PM	62954
Surr: 4-Bromofluorobenzene	87.1	70-130		%Rec	1	10/4/2021 2:05:32 PM	62954

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109C66**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP9-14

Project: Hornbaker BA 2

Collection Date: 9/21/2021 8:20:00 AM

Lab ID: 2109C66-004

Matrix: SOIL

Received Date: 9/23/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	950	60		mg/Kg	20	10/4/2021 10:32:26 AM	62988
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/1/2021 10:22:11 PM	62957
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/1/2021 10:22:11 PM	62957
Surr: DNOP	76.0	70-130		%Rec	1	10/1/2021 10:22:11 PM	62957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/4/2021 2:29:01 PM	62954
Surr: BFB	107	70-130		%Rec	1	10/4/2021 2:29:01 PM	62954
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/4/2021 2:29:01 PM	62954
Toluene	ND	0.049		mg/Kg	1	10/4/2021 2:29:01 PM	62954
Ethylbenzene	ND	0.049		mg/Kg	1	10/4/2021 2:29:01 PM	62954
Xylenes, Total	ND	0.098		mg/Kg	1	10/4/2021 2:29:01 PM	62954
Surr: 4-Bromofluorobenzene	88.6	70-130		%Rec	1	10/4/2021 2:29:01 PM	62954

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109C66**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP9-17

Project: Hornbaker BA 2

Collection Date: 9/21/2021 8:40:00 AM

Lab ID: 2109C66-005

Matrix: SOIL

Received Date: 9/23/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	550	60		mg/Kg	20	10/4/2021 10:44:52 AM	62988
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/1/2021 10:45:48 PM	62957
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/1/2021 10:45:48 PM	62957
Surr: DNOP	79.8	70-130		%Rec	1	10/1/2021 10:45:48 PM	62957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/4/2021 4:03:05 PM	62954
Surr: BFB	103	70-130		%Rec	1	10/4/2021 4:03:05 PM	62954
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/4/2021 4:03:05 PM	62954
Toluene	ND	0.049		mg/Kg	1	10/4/2021 4:03:05 PM	62954
Ethylbenzene	ND	0.049		mg/Kg	1	10/4/2021 4:03:05 PM	62954
Xylenes, Total	ND	0.098		mg/Kg	1	10/4/2021 4:03:05 PM	62954
Surr: 4-Bromofluorobenzene	85.1	70-130		%Rec	1	10/4/2021 4:03:05 PM	62954

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109C66**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP9-19

Project: Hornbaker BA 2

Collection Date: 9/21/2021 9:00:00 AM

Lab ID: 2109C66-006

Matrix: SOIL

Received Date: 9/23/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	300	59		mg/Kg	20	10/4/2021 10:57:17 AM	62988
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/1/2021 11:09:24 PM	62957
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/1/2021 11:09:24 PM	62957
Surr: DNOP	93.4	70-130		%Rec	1	10/1/2021 11:09:24 PM	62957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/4/2021 4:26:36 PM	62954
Surr: BFB	104	70-130		%Rec	1	10/4/2021 4:26:36 PM	62954
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/4/2021 4:26:36 PM	62954
Toluene	ND	0.049		mg/Kg	1	10/4/2021 4:26:36 PM	62954
Ethylbenzene	ND	0.049		mg/Kg	1	10/4/2021 4:26:36 PM	62954
Xylenes, Total	ND	0.097		mg/Kg	1	10/4/2021 4:26:36 PM	62954
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	1	10/4/2021 4:26:36 PM	62954

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109C66**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP10-2

Project: Hornbaker BA 2

Collection Date: 9/21/2021 9:40:00 AM

Lab ID: 2109C66-007

Matrix: SOIL

Received Date: 9/23/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1100	60		mg/Kg	20	9/29/2021 12:57:46 AM	62881
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/28/2021 6:26:34 PM	62795
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/28/2021 6:26:34 PM	62795
Surr: DNOP	91.3	70-130		%Rec	1	9/28/2021 6:26:34 PM	62795
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/24/2021 11:56:00 AM	62793
Surr: BFB	91.8	70-130		%Rec	1	9/24/2021 11:56:00 AM	62793
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	9/24/2021 11:56:00 AM	62793
Toluene	ND	0.049		mg/Kg	1	9/24/2021 11:56:00 AM	62793
Ethylbenzene	ND	0.049		mg/Kg	1	9/24/2021 11:56:00 AM	62793
Xylenes, Total	ND	0.099		mg/Kg	1	9/24/2021 11:56:00 AM	62793
Surr: 4-Bromofluorobenzene	76.6	70-130		%Rec	1	9/24/2021 11:56:00 AM	62793

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109C66**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP10-6

Project: Hornbaker BA 2

Collection Date: 9/21/2021 9:50:00 AM

Lab ID: 2109C66-008

Matrix: SOIL

Received Date: 9/23/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	270	61		mg/Kg	20	10/4/2021 11:09:41 AM	62988
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/1/2021 11:33:00 PM	62957
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/1/2021 11:33:00 PM	62957
Surr: DNOP	88.0	70-130		%Rec	1	10/1/2021 11:33:00 PM	62957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/4/2021 4:50:03 PM	62954
Surr: BFB	103	70-130		%Rec	1	10/4/2021 4:50:03 PM	62954
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/4/2021 4:50:03 PM	62954
Toluene	ND	0.049		mg/Kg	1	10/4/2021 4:50:03 PM	62954
Ethylbenzene	ND	0.049		mg/Kg	1	10/4/2021 4:50:03 PM	62954
Xylenes, Total	ND	0.098		mg/Kg	1	10/4/2021 4:50:03 PM	62954
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	10/4/2021 4:50:03 PM	62954

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109C66**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP10-8

Project: Hornbaker BA 2

Collection Date: 9/21/2021 10:00:00 AM

Lab ID: 2109C66-009

Matrix: SOIL

Received Date: 9/23/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	380	60		mg/Kg	20	10/4/2021 11:22:05 AM	62988
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/1/2021 11:56:37 PM	62957
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/1/2021 11:56:37 PM	62957
Surr: DNOP	97.4	70-130		%Rec	1	10/1/2021 11:56:37 PM	62957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/4/2021 5:13:48 PM	62954
Surr: BFB	102	70-130		%Rec	1	10/4/2021 5:13:48 PM	62954
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	10/4/2021 5:13:48 PM	62954
Toluene	ND	0.047		mg/Kg	1	10/4/2021 5:13:48 PM	62954
Ethylbenzene	ND	0.047		mg/Kg	1	10/4/2021 5:13:48 PM	62954
Xylenes, Total	ND	0.095		mg/Kg	1	10/4/2021 5:13:48 PM	62954
Surr: 4-Bromofluorobenzene	83.6	70-130		%Rec	1	10/4/2021 5:13:48 PM	62954

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109C66**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP10-10

Project: Hornbaker BA 2

Collection Date: 9/21/2021 10:10:00 AM

Lab ID: 2109C66-010

Matrix: SOIL

Received Date: 9/23/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	75	60		mg/Kg	20	10/4/2021 11:34:30 AM	62988
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/2/2021 12:20:14 AM	62957
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/2/2021 12:20:14 AM	62957
Surr: DNOP	73.1	70-130		%Rec	1	10/2/2021 12:20:14 AM	62957
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/4/2021 5:37:18 PM	62954
Surr: BFB	105	70-130		%Rec	1	10/4/2021 5:37:18 PM	62954
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	10/4/2021 5:37:18 PM	62954
Toluene	ND	0.047		mg/Kg	1	10/4/2021 5:37:18 PM	62954
Ethylbenzene	ND	0.047		mg/Kg	1	10/4/2021 5:37:18 PM	62954
Xylenes, Total	ND	0.093		mg/Kg	1	10/4/2021 5:37:18 PM	62954
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	10/4/2021 5:37:18 PM	62954

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109C66**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP11-S

Project: Hornbaker BA 2

Collection Date: 9/21/2021 10:20:00 AM

Lab ID: 2109C66-011

Matrix: SOIL

Received Date: 9/23/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/29/2021 1:35:00 AM	62881
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/24/2021 12:28:04 PM	62795
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/24/2021 12:28:04 PM	62795
Surr: DNOP	81.0	70-130		%Rec	1	9/24/2021 12:28:04 PM	62795
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/24/2021 12:16:00 PM	62793
Surr: BFB	86.4	70-130		%Rec	1	9/24/2021 12:16:00 PM	62793
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	9/24/2021 12:16:00 PM	62793
Toluene	ND	0.049		mg/Kg	1	9/24/2021 12:16:00 PM	62793
Ethylbenzene	ND	0.049		mg/Kg	1	9/24/2021 12:16:00 PM	62793
Xylenes, Total	ND	0.099		mg/Kg	1	9/24/2021 12:16:00 PM	62793
Surr: 4-Bromofluorobenzene	75.7	70-130		%Rec	1	9/24/2021 12:16:00 PM	62793

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109C66**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP11-2

Project: Hornbaker BA 2

Collection Date: 9/21/2021 10:30:00 AM

Lab ID: 2109C66-012

Matrix: SOIL

Received Date: 9/23/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/29/2021 1:47:24 AM	62881
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	9/24/2021 12:40:30 PM	62795
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/24/2021 12:40:30 PM	62795
Surr: DNOP	101	70-130		%Rec	1	9/24/2021 12:40:30 PM	62795
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/24/2021 12:36:00 PM	62793
Surr: BFB	91.0	70-130		%Rec	1	9/24/2021 12:36:00 PM	62793
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	9/24/2021 12:36:00 PM	62793
Toluene	ND	0.050		mg/Kg	1	9/24/2021 12:36:00 PM	62793
Ethylbenzene	ND	0.050		mg/Kg	1	9/24/2021 12:36:00 PM	62793
Xylenes, Total	ND	0.099		mg/Kg	1	9/24/2021 12:36:00 PM	62793
Surr: 4-Bromofluorobenzene	78.2	70-130		%Rec	1	9/24/2021 12:36:00 PM	62793

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109C66**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP12-S

Project: Hornbaker BA 2

Collection Date: 9/21/2021 10:35:00 AM

Lab ID: 2109C66-013

Matrix: SOIL

Received Date: 9/23/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/29/2021 1:59:49 AM	62881
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/24/2021 12:52:56 PM	62795
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/24/2021 12:52:56 PM	62795
Surr: DNOP	112	70-130		%Rec	1	9/24/2021 12:52:56 PM	62795
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/24/2021 12:55:00 PM	62793
Surr: BFB	90.4	70-130		%Rec	1	9/24/2021 12:55:00 PM	62793
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	9/24/2021 12:55:00 PM	62793
Toluene	ND	0.048		mg/Kg	1	9/24/2021 12:55:00 PM	62793
Ethylbenzene	ND	0.048		mg/Kg	1	9/24/2021 12:55:00 PM	62793
Xylenes, Total	ND	0.096		mg/Kg	1	9/24/2021 12:55:00 PM	62793
Surr: 4-Bromofluorobenzene	78.0	70-130		%Rec	1	9/24/2021 12:55:00 PM	62793

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109C66**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP12-2

Project: Hornbaker BA 2

Collection Date: 9/21/2021 10:40:00 AM

Lab ID: 2109C66-014

Matrix: SOIL

Received Date: 9/23/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/29/2021 2:12:14 AM	62881
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/28/2021 6:02:46 PM	62795
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/28/2021 6:02:46 PM	62795
Surr: DNOP	81.0	70-130		%Rec	1	9/28/2021 6:02:46 PM	62795
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/24/2021 1:15:00 PM	62793
Surr: BFB	91.3	70-130		%Rec	1	9/24/2021 1:15:00 PM	62793
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	9/24/2021 1:15:00 PM	62793
Toluene	ND	0.048		mg/Kg	1	9/24/2021 1:15:00 PM	62793
Ethylbenzene	ND	0.048		mg/Kg	1	9/24/2021 1:15:00 PM	62793
Xylenes, Total	ND	0.097		mg/Kg	1	9/24/2021 1:15:00 PM	62793
Surr: 4-Bromofluorobenzene	79.2	70-130		%Rec	1	9/24/2021 1:15:00 PM	62793

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109C66**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP13-2

Project: Hornbaker BA 2

Collection Date: 9/21/2021 10:50:00 AM

Lab ID: 2109C66-015

Matrix: SOIL

Received Date: 9/23/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	200	60		mg/Kg	20	9/29/2021 2:24:39 AM	62881
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/24/2021 1:17:33 PM	62795
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/24/2021 1:17:33 PM	62795
Surr: DNOP	90.5	70-130		%Rec	1	9/24/2021 1:17:33 PM	62795
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/24/2021 2:14:00 PM	62793
Surr: BFB	90.2	70-130		%Rec	1	9/24/2021 2:14:00 PM	62793
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	9/24/2021 2:14:00 PM	62793
Toluene	ND	0.048		mg/Kg	1	9/24/2021 2:14:00 PM	62793
Ethylbenzene	ND	0.048		mg/Kg	1	9/24/2021 2:14:00 PM	62793
Xylenes, Total	ND	0.096		mg/Kg	1	9/24/2021 2:14:00 PM	62793
Surr: 4-Bromofluorobenzene	75.7	70-130		%Rec	1	9/24/2021 2:14:00 PM	62793

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109C66**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP13-4

Project: Hornbaker BA 2

Collection Date: 9/21/2021 11:00:00 AM

Lab ID: 2109C66-016

Matrix: SOIL

Received Date: 9/23/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	240	60		mg/Kg	20	9/29/2021 2:37:04 AM	62881
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/24/2021 1:29:56 PM	62795
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/24/2021 1:29:56 PM	62795
Surr: DNOP	82.2	70-130		%Rec	1	9/24/2021 1:29:56 PM	62795
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/24/2021 2:34:00 PM	62793
Surr: BFB	85.5	70-130		%Rec	1	9/24/2021 2:34:00 PM	62793
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	9/24/2021 2:34:00 PM	62793
Toluene	ND	0.049		mg/Kg	1	9/24/2021 2:34:00 PM	62793
Ethylbenzene	ND	0.049		mg/Kg	1	9/24/2021 2:34:00 PM	62793
Xylenes, Total	ND	0.098		mg/Kg	1	9/24/2021 2:34:00 PM	62793
Surr: 4-Bromofluorobenzene	77.0	70-130		%Rec	1	9/24/2021 2:34:00 PM	62793

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109C66**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP14-S

Project: Hornbaker BA 2

Collection Date: 9/21/2021 11:05:00 AM

Lab ID: 2109C66-017

Matrix: SOIL

Received Date: 9/23/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	130	60		mg/Kg	20	9/29/2021 2:49:29 AM	62881
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	11	9.6		mg/Kg	1	9/24/2021 1:42:19 PM	62795
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/24/2021 1:42:19 PM	62795
Surr: DNOP	72.4	70-130		%Rec	1	9/24/2021 1:42:19 PM	62795
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/24/2021 3:33:00 PM	62793
Surr: BFB	89.7	70-130		%Rec	1	9/24/2021 3:33:00 PM	62793
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	9/24/2021 3:33:00 PM	62793
Toluene	ND	0.049		mg/Kg	1	9/24/2021 3:33:00 PM	62793
Ethylbenzene	ND	0.049		mg/Kg	1	9/24/2021 3:33:00 PM	62793
Xylenes, Total	ND	0.098		mg/Kg	1	9/24/2021 3:33:00 PM	62793
Surr: 4-Bromofluorobenzene	77.2	70-130		%Rec	1	9/24/2021 3:33:00 PM	62793

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109C66**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP14-2

Project: Hornbaker BA 2

Collection Date: 9/21/2021 11:10:00 AM

Lab ID: 2109C66-018

Matrix: SOIL

Received Date: 9/23/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	83	59		mg/Kg	20	9/29/2021 3:01:54 AM	62881
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/24/2021 1:54:56 PM	62795
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/24/2021 1:54:56 PM	62795
Surr: DNOP	73.7	70-130		%Rec	1	9/24/2021 1:54:56 PM	62795
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/24/2021 3:52:00 PM	62793
Surr: BFB	92.6	70-130		%Rec	1	9/24/2021 3:52:00 PM	62793
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	9/24/2021 3:52:00 PM	62793
Toluene	ND	0.046		mg/Kg	1	9/24/2021 3:52:00 PM	62793
Ethylbenzene	ND	0.046		mg/Kg	1	9/24/2021 3:52:00 PM	62793
Xylenes, Total	ND	0.093		mg/Kg	1	9/24/2021 3:52:00 PM	62793
Surr: 4-Bromofluorobenzene	78.6	70-130		%Rec	1	9/24/2021 3:52:00 PM	62793

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109C66**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP15-S

Project: Hornbaker BA 2

Collection Date: 9/21/2021 11:20:00 AM

Lab ID: 2109C66-019

Matrix: SOIL

Received Date: 9/23/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/29/2021 3:14:19 AM	62881
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/24/2021 2:07:19 PM	62795
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/24/2021 2:07:19 PM	62795
Surr: DNOP	81.4	70-130		%Rec	1	9/24/2021 2:07:19 PM	62795
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/24/2021 4:12:00 PM	62793
Surr: BFB	91.6	70-130		%Rec	1	9/24/2021 4:12:00 PM	62793
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	9/24/2021 4:12:00 PM	62793
Toluene	ND	0.049		mg/Kg	1	9/24/2021 4:12:00 PM	62793
Ethylbenzene	ND	0.049		mg/Kg	1	9/24/2021 4:12:00 PM	62793
Xylenes, Total	ND	0.099		mg/Kg	1	9/24/2021 4:12:00 PM	62793
Surr: 4-Bromofluorobenzene	77.9	70-130		%Rec	1	9/24/2021 4:12:00 PM	62793

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order **2109C66**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP15-2

Project: Hornbaker BA 2

Collection Date: 9/21/2021 11:25:00 AM

Lab ID: 2109C66-020

Matrix: SOIL

Received Date: 9/23/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	99	60		mg/Kg	20	9/29/2021 3:26:44 AM	62881
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/24/2021 2:19:55 PM	62795
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/24/2021 2:19:55 PM	62795
Surr: DNOP	91.2	70-130		%Rec	1	9/24/2021 2:19:55 PM	62795
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/24/2021 4:32:00 PM	62793
Surr: BFB	91.1	70-130		%Rec	1	9/24/2021 4:32:00 PM	62793
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	9/24/2021 4:32:00 PM	62793
Toluene	ND	0.049		mg/Kg	1	9/24/2021 4:32:00 PM	62793
Ethylbenzene	ND	0.049		mg/Kg	1	9/24/2021 4:32:00 PM	62793
Xylenes, Total	ND	0.098		mg/Kg	1	9/24/2021 4:32:00 PM	62793
Surr: 4-Bromofluorobenzene	79.4	70-130		%Rec	1	9/24/2021 4:32:00 PM	62793

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109C66**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP16-S

Project: Hornbaker BA 2

Collection Date: 9/21/2021 12:40:00 PM

Lab ID: 2109C66-021

Matrix: SOIL

Received Date: 9/23/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/29/2021 4:03:58 AM	62881
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/24/2021 2:32:22 PM	62795
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/24/2021 2:32:22 PM	62795
Surr: DNOP	78.2	70-130		%Rec	1	9/24/2021 2:32:22 PM	62795
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/24/2021 4:52:00 PM	62793
Surr: BFB	93.2	70-130		%Rec	1	9/24/2021 4:52:00 PM	62793
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	9/24/2021 4:52:00 PM	62793
Toluene	ND	0.048		mg/Kg	1	9/24/2021 4:52:00 PM	62793
Ethylbenzene	ND	0.048		mg/Kg	1	9/24/2021 4:52:00 PM	62793
Xylenes, Total	ND	0.097		mg/Kg	1	9/24/2021 4:52:00 PM	62793
Surr: 4-Bromofluorobenzene	78.9	70-130		%Rec	1	9/24/2021 4:52:00 PM	62793

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL Reporting Limit
	S % Recovery outside of range due to dilution or matrix	

Analytical Report

Lab Order **2109C66**

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP16-2

Project: Hornbaker BA 2

Collection Date: 9/21/2021 12:50:00 PM

Lab ID: 2109C66-022

Matrix: SOIL

Received Date: 9/23/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	9/29/2021 4:16:23 AM	62881
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	66	9.9		mg/Kg	1	9/27/2021 8:33:44 PM	62795
Motor Oil Range Organics (MRO)	170	50		mg/Kg	1	9/27/2021 8:33:44 PM	62795
Surr: DNOP	87.7	70-130		%Rec	1	9/27/2021 8:33:44 PM	62795
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/24/2021 5:12:00 PM	62793
Surr: BFB	92.1	70-130		%Rec	1	9/24/2021 5:12:00 PM	62793
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	9/24/2021 5:12:00 PM	62793
Toluene	ND	0.047		mg/Kg	1	9/24/2021 5:12:00 PM	62793
Ethylbenzene	ND	0.047		mg/Kg	1	9/24/2021 5:12:00 PM	62793
Xylenes, Total	ND	0.093		mg/Kg	1	9/24/2021 5:12:00 PM	62793
Surr: 4-Bromofluorobenzene	77.8	70-130		%Rec	1	9/24/2021 5:12:00 PM	62793

Refer to the QC Summary report and sample login checklist for flagged QC data 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 Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2109C66

14-Oct-21

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: MB-62881	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 62881	RunNo: 81605								
Prep Date: 9/28/2021	Analysis Date: 9/29/2021	SeqNo: 2886065	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-62881	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 62881	RunNo: 81605								
Prep Date: 9/28/2021	Analysis Date: 9/29/2021	SeqNo: 2886066	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.1	90	110			

Sample ID: MB-62988	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 62988	RunNo: 81780								
Prep Date: 10/2/2021	Analysis Date: 10/4/2021	SeqNo: 2892413	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-62988	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 62988	RunNo: 81780								
Prep Date: 10/2/2021	Analysis Date: 10/4/2021	SeqNo: 2892414	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.4	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- 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#: 2109C66

14-Oct-21

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: MB-62795	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 62795	RunNo: 81548								
Prep Date: 9/23/2021	Analysis Date: 9/24/2021	SeqNo: 2881822	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		107	70	130			

Sample ID: LCS-62795	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 62795	RunNo: 81548								
Prep Date: 9/23/2021	Analysis Date: 9/24/2021	SeqNo: 2881823	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.2	68.9	135			
Surr: DNOP	4.8		5.000		96.4	70	130			

Sample ID: MB-62957	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 62957	RunNo: 81750								
Prep Date: 9/30/2021	Analysis Date: 10/1/2021	SeqNo: 2890617	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.0	70	130			

Sample ID: LCS-62957	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 62957	RunNo: 81750								
Prep Date: 9/30/2021	Analysis Date: 10/1/2021	SeqNo: 2890618	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.7	68.9	135			
Surr: DNOP	4.9		5.000		98.9	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- 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#: 2109C66

14-Oct-21

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: ics-62793	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 62793	RunNo: 81547								
Prep Date: 9/23/2021	Analysis Date: 9/24/2021	SeqNo: 2881959	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	110	78.6	131			
Surr: BFB	1000		1000		101	70	130			

Sample ID: mb-62793	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 62793	RunNo: 81547								
Prep Date: 9/23/2021	Analysis Date: 9/24/2021	SeqNo: 2881960	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		95.6	70	130			

Sample ID: mb-62954	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 62954	RunNo: 81769								
Prep Date: 9/30/2021	Analysis Date: 10/4/2021	SeqNo: 2891593	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: ics-62954	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 62954	RunNo: 81769								
Prep Date: 9/30/2021	Analysis Date: 10/4/2021	SeqNo: 2891594	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	78.6	131			
Surr: BFB	1100		1000		110	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative 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#: 2109C66

14-Oct-21

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: ics-62793	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 62793		RunNo: 81547							
Prep Date: 9/23/2021	Analysis Date: 9/24/2021		SeqNo: 2881994		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	87.9	80	120			
Toluene	0.89	0.050	1.000	0	89.1	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.4	80	120			
Surr: 4-Bromofluorobenzene	0.79		1.000		78.9	70	130			

Sample ID: mb-62793	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 62793		RunNo: 81547							
Prep Date: 9/23/2021	Analysis Date: 9/24/2021		SeqNo: 2881995		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.81		1.000		81.0	70	130			

Sample ID: 2109C66-001ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: TP9-2	Batch ID: 62793		RunNo: 81547							
Prep Date: 9/23/2021	Analysis Date: 9/24/2021		SeqNo: 2881999		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	0.9990	0	97.7	80	120			
Toluene	1.0	0.050	0.9990	0	102	80	120			
Ethylbenzene	1.1	0.050	0.9990	0	106	80	120			
Xylenes, Total	3.2	0.10	2.997	0	106	80	120			
Surr: 4-Bromofluorobenzene	0.75		0.9990		74.9	70	130			

Sample ID: 2109C66-001amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: TP9-2	Batch ID: 62793		RunNo: 81547							
Prep Date: 9/23/2021	Analysis Date: 9/24/2021		SeqNo: 2882000		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.024	0.9756	0	98.9	80	120	1.15	20	
Toluene	1.0	0.049	0.9756	0	104	80	120	0.412	20	
Ethylbenzene	1.1	0.049	0.9756	0	108	80	120	0.577	20	
Xylenes, Total	3.2	0.098	2.927	0	108	80	120	0.140	20	
Surr: 4-Bromofluorobenzene	0.75		0.9756		76.7	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- 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#: 2109C66

14-Oct-21

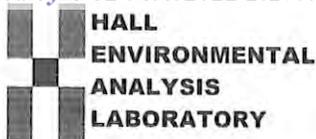
Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: mb-62954	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 62954	RunNo: 81769								
Prep Date: 9/30/2021	Analysis Date: 10/4/2021	SeqNo: 2891656	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		84.8	70	130			

Sample ID: LCS-62954	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 62954	RunNo: 81769								
Prep Date: 9/30/2021	Analysis Date: 10/4/2021	SeqNo: 2891657	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	97.1	80	120			
Toluene	0.98	0.050	1.000	0	98.2	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.1	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		87.7	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 Quantitative 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
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: **2109C66**

RcptNo: **1**

Received By: **Cheyenne Cason** 9/23/2021 7:30:00 AM

Completed By: **Sean Livingston** 9/23/2021 8:27:21 AM

Reviewed By: *Jn 9/23/21*

Chad
Sean Livingston

Chain of Custody

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

Log In

- 3. Was an attempt made to cool the samples? Yes No NA
- 4. Were all samples received at a temperature of >0° 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? Yes No
(Note discrepancies on chain of custody)
- 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? Yes No
(If no, notify customer for authorization.)

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

Checked by: *TRM 9.23.21*

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.6	Good				
2	2.9	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address:
 324 W. Main St. Suite 108, Artesia NM 88210
 Phone #: (505)377-4218
 email or Fax#: Becky.Haskell@ghd.com

QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other
 EDD (Type)

Turn-Around Time:
 Standard Rush 5-Days

Project Name:
Humboldt BA #2

Project #:
11228980

Project Manager:
 Becky Haskell
 Tom Larson

Sampler: Zach Comino

On Ice: Yes No

of Coolers: 2 2.7-0.1 = 2.6

Cooler Temp (including CP): 3.0 -0.1 = 2.9

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
0820	0735	S	TP9-2	Jar		2109609
	0745		TP9-6			001
	0800		TP9-10			002
	0820		TP9-14			003
	0840		TP9-17			004
	0900		TP9-19			005
	0940		TP10-2			006
	0950		TP10-6			007
	1000		TP10-8			008
	1010		TP10-10			009
	1020		TP11-5			010
	1030		TP11-2			012

Relinquished by: Zach Comino

Date: 0820 Time: 0800

Relinquished by: Becky Haskell

Date: 0820 Time: 1900

Received by: Wynn Date: 9/21/11 Time: 800

Received by: Circ Comino Date: 9/23/11 Time: 0730

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request

TPH:8015D(GRO / DRO / MRO)	
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	<u>2</u>

2 Albino Nickel 300
2 2nd test if sample above fails

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#: Beckv.Haskell@ghd.com

QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance NELAC Other
 EDD (Type)

Date	Time	Matrix	Sample Name
09/23/21	1035	S	TP12-S
	1040		TP12-2
	1050		TP13-2
	1100		TP13-4
	1105		TP14-S
	1110		TP14-2
	1120		TP15-S
	1125		TP15-2
	1240		TP16-S
	1250		TP16-2

Relinquished by: *Zach Comino* Date: 09/23/21 Time: 0800

Relinquished by: *Alumina* Date: 09/24/21 Time: 1900

Turn-Around Time: Standard Rush *5-De*

Project Name: *Hamber BA #2*

Project #: *11228980*

Project Manager:
 Becky Haskell
 Tom Larson

Sampler: Zach Comino

On Ice: Yes No *09/23/21*

of Coolers: *2* *2.7* *0.1 = 2.6*

Cooler Temp. (including CF): *3.0 - 0.1 = 2.9*

Container Type and #	Preservative Type	HEAL No.
<i>Jaw</i>		<i>013</i>
		<i>014</i>
		<i>015</i>
		<i>016</i>
		<i>017</i>
		<i>018</i>
		<i>019</i>
		<i>020</i>
		<i>021</i>
		<i>022</i>

Received by: *Alumina* Date: *09/23/21* Time: *0730*

Received by: *One Carry* Date: *09/23/21* Time: *0730*



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

Analysis Request

<input checked="" type="checkbox"/> BTEX / MTBE / TMB's (8024)	
<input checked="" type="checkbox"/> 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)	<i>Yellow Melt 300</i>

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

March 16, 2022

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

RE: Hornbaker BA 2

OrderNo.: 2203290

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 19 sample(s) on 3/4/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2203290**

Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-1

Project: Hornbaker BA 2

Collection Date: 3/2/2022 8:00:00 AM

Lab ID: 2203290-001

Matrix: SOIL

Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	3600	150		mg/Kg	50	3/11/2022 2:26:09 PM	66090
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	90	9.0		mg/Kg	1	3/8/2022 4:02:50 PM	65999
Motor Oil Range Organics (MRO)	140	45		mg/Kg	1	3/8/2022 4:02:50 PM	65999
Surr: DNOP	94.2	51.1-141		%Rec	1	3/8/2022 4:02:50 PM	65999
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/8/2022 11:02:00 AM	65969
Surr: BFB	100	70-130		%Rec	1	3/8/2022 11:02:00 AM	65969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/8/2022 11:02:00 AM	65969
Toluene	ND	0.047		mg/Kg	1	3/8/2022 11:02:00 AM	65969
Ethylbenzene	ND	0.047		mg/Kg	1	3/8/2022 11:02:00 AM	65969
Xylenes, Total	ND	0.095		mg/Kg	1	3/8/2022 11:02:00 AM	65969
Surr: 4-Bromofluorobenzene	87.6	70-130		%Rec	1	3/8/2022 11:02:00 AM	65969

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

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

Analytical Report

Lab Order **2203290**

Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-2

Project: Hornbaker BA 2

Collection Date: 3/2/2022 8:05:00 AM

Lab ID: 2203290-002

Matrix: SOIL

Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	3400	150		mg/Kg	50	3/11/2022 2:38:29 PM	66090
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	120	9.8		mg/Kg	1	3/8/2022 4:31:03 PM	65999
Motor Oil Range Organics (MRO)	88	49		mg/Kg	1	3/8/2022 4:31:03 PM	65999
Surr: DNOP	117	51.1-141		%Rec	1	3/8/2022 4:31:03 PM	65999
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/8/2022 12:02:00 PM	65969
Surr: BFB	105	70-130		%Rec	1	3/8/2022 12:02:00 PM	65969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/8/2022 12:02:00 PM	65969
Toluene	ND	0.049		mg/Kg	1	3/8/2022 12:02:00 PM	65969
Ethylbenzene	ND	0.049		mg/Kg	1	3/8/2022 12:02:00 PM	65969
Xylenes, Total	ND	0.098		mg/Kg	1	3/8/2022 12:02:00 PM	65969
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	3/8/2022 12:02:00 PM	65969

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

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

Analytical Report

Lab Order **2203290**

Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-3

Project: Hornbaker BA 2

Collection Date: 3/2/2022 8:10:00 AM

Lab ID: 2203290-003

Matrix: SOIL

Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1400	60		mg/Kg	20	3/10/2022 1:44:11 PM	66090
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	3/8/2022 4:45:02 PM	65999
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/8/2022 4:45:02 PM	65999
Surr: DNOP	77.4	51.1-141		%Rec	1	3/8/2022 4:45:02 PM	65999
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/8/2022 1:01:00 PM	65969
Surr: BFB	106	70-130		%Rec	1	3/8/2022 1:01:00 PM	65969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/8/2022 1:01:00 PM	65969
Toluene	ND	0.048		mg/Kg	1	3/8/2022 1:01:00 PM	65969
Ethylbenzene	ND	0.048		mg/Kg	1	3/8/2022 1:01:00 PM	65969
Xylenes, Total	ND	0.097		mg/Kg	1	3/8/2022 1:01:00 PM	65969
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	1	3/8/2022 1:01:00 PM	65969

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

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

Analytical Report

Lab Order **2203290**

Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-4

Project: Hornbaker BA 2

Collection Date: 3/2/2022 8:15:00 AM

Lab ID: 2203290-004

Matrix: SOIL

Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2400	150		mg/Kg	50	3/11/2022 3:15:32 PM	66090
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/8/2022 4:59:03 PM	65999
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/8/2022 4:59:03 PM	65999
Surr: DNOP	77.5	51.1-141		%Rec	1	3/8/2022 4:59:03 PM	65999
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/8/2022 1:20:00 PM	65969
Surr: BFB	104	70-130		%Rec	1	3/8/2022 1:20:00 PM	65969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/8/2022 1:20:00 PM	65969
Toluene	ND	0.048		mg/Kg	1	3/8/2022 1:20:00 PM	65969
Ethylbenzene	ND	0.048		mg/Kg	1	3/8/2022 1:20:00 PM	65969
Xylenes, Total	ND	0.096		mg/Kg	1	3/8/2022 1:20:00 PM	65969
Surr: 4-Bromofluorobenzene	89.8	70-130		%Rec	1	3/8/2022 1:20:00 PM	65969

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

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

Analytical Report

Lab Order 2203290

Date Reported: 3/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-5

Project: Hornbaker BA 2

Collection Date: 3/2/2022 8:20:00 AM

Lab ID: 2203290-005

Matrix: SOIL

Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1600	60		mg/Kg	20	3/10/2022 2:08:52 PM	66090
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/8/2022 5:12:56 PM	65999
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/8/2022 5:12:56 PM	65999
Surr: DNOP	73.0	51.1-141		%Rec	1	3/8/2022 5:12:56 PM	65999
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/8/2022 1:40:00 PM	65969
Surr: BFB	109	70-130		%Rec	1	3/8/2022 1:40:00 PM	65969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/8/2022 1:40:00 PM	65969
Toluene	ND	0.047		mg/Kg	1	3/8/2022 1:40:00 PM	65969
Ethylbenzene	ND	0.047		mg/Kg	1	3/8/2022 1:40:00 PM	65969
Xylenes, Total	ND	0.095		mg/Kg	1	3/8/2022 1:40:00 PM	65969
Surr: 4-Bromofluorobenzene	90.5	70-130		%Rec	1	3/8/2022 1:40:00 PM	65969

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

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

Analytical Report

Lab Order 2203290

Date Reported: 3/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-6

Project: Hornbaker BA 2

Collection Date: 3/2/2022 9:00:00 AM

Lab ID: 2203290-006

Matrix: SOIL

Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1000	60		mg/Kg	20	3/10/2022 2:21:12 PM	66090
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/8/2022 5:26:54 PM	65999
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/8/2022 5:26:54 PM	65999
Surr: DNOP	71.9	51.1-141		%Rec	1	3/8/2022 5:26:54 PM	65999
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/8/2022 2:00:00 PM	65969
Surr: BFB	104	70-130		%Rec	1	3/8/2022 2:00:00 PM	65969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/8/2022 2:00:00 PM	65969
Toluene	ND	0.046		mg/Kg	1	3/8/2022 2:00:00 PM	65969
Ethylbenzene	ND	0.046		mg/Kg	1	3/8/2022 2:00:00 PM	65969
Xylenes, Total	ND	0.093		mg/Kg	1	3/8/2022 2:00:00 PM	65969
Surr: 4-Bromofluorobenzene	90.3	70-130		%Rec	1	3/8/2022 2:00:00 PM	65969

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

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

Analytical Report

Lab Order 2203290

Date Reported: 3/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-1

Project: Hornbaker BA 2

Collection Date: 3/2/2022 9:05:00 AM

Lab ID: 2203290-007

Matrix: SOIL

Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	110	60		mg/Kg	20	3/10/2022 2:33:33 PM	66090
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	3/8/2022 1:28:18 PM	66003
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/8/2022 1:28:18 PM	66003
Surr: DNOP	81.4	51.1-141		%Rec	1	3/8/2022 1:28:18 PM	66003
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/8/2022 2:20:00 PM	65969
Surr: BFB	103	70-130		%Rec	1	3/8/2022 2:20:00 PM	65969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/8/2022 2:20:00 PM	65969
Toluene	ND	0.049		mg/Kg	1	3/8/2022 2:20:00 PM	65969
Ethylbenzene	ND	0.049		mg/Kg	1	3/8/2022 2:20:00 PM	65969
Xylenes, Total	ND	0.099		mg/Kg	1	3/8/2022 2:20:00 PM	65969
Surr: 4-Bromofluorobenzene	89.3	70-130		%Rec	1	3/8/2022 2:20:00 PM	65969

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

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

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Analytical Report

Lab Order **2203290**

Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-2

Project: Hornbaker BA 2

Collection Date: 3/2/2022 9:10:00 AM

Lab ID: 2203290-008

Matrix: SOIL

Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	370	60		mg/Kg	20	3/10/2022 2:45:54 PM	66090
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/8/2022 1:38:55 PM	66003
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/8/2022 1:38:55 PM	66003
Surr: DNOP	103	51.1-141		%Rec	1	3/8/2022 1:38:55 PM	66003
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/8/2022 2:39:00 PM	65969
Surr: BFB	106	70-130		%Rec	1	3/8/2022 2:39:00 PM	65969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/8/2022 2:39:00 PM	65969
Toluene	ND	0.049		mg/Kg	1	3/8/2022 2:39:00 PM	65969
Ethylbenzene	ND	0.049		mg/Kg	1	3/8/2022 2:39:00 PM	65969
Xylenes, Total	ND	0.099		mg/Kg	1	3/8/2022 2:39:00 PM	65969
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	3/8/2022 2:39:00 PM	65969

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

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

Analytical Report

Lab Order **2203290**

Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-7

Project: Hornbaker BA 2

Collection Date: 3/2/2022 9:15:00 AM

Lab ID: 2203290-009

Matrix: SOIL

Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2000	60		mg/Kg	20	3/10/2022 2:58:15 PM	66090
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/8/2022 1:49:31 PM	66003
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/8/2022 1:49:31 PM	66003
Surr: DNOP	81.2	51.1-141		%Rec	1	3/8/2022 1:49:31 PM	66003
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/8/2022 2:59:00 PM	65969
Surr: BFB	107	70-130		%Rec	1	3/8/2022 2:59:00 PM	65969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/8/2022 2:59:00 PM	65969
Toluene	ND	0.047		mg/Kg	1	3/8/2022 2:59:00 PM	65969
Ethylbenzene	ND	0.047		mg/Kg	1	3/8/2022 2:59:00 PM	65969
Xylenes, Total	ND	0.095		mg/Kg	1	3/8/2022 2:59:00 PM	65969
Surr: 4-Bromofluorobenzene	89.0	70-130		%Rec	1	3/8/2022 2:59:00 PM	65969

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

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

Analytical Report

Lab Order **2203290**

Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-8

Project: Hornbaker BA 2

Collection Date: 3/2/2022 10:00:00 AM

Lab ID: 2203290-010

Matrix: SOIL

Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	890	60		mg/Kg	20	3/10/2022 3:10:35 PM	66090
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/8/2022 2:00:09 PM	66003
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/8/2022 2:00:09 PM	66003
Surr: DNOP	133	51.1-141		%Rec	1	3/8/2022 2:00:09 PM	66003
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/8/2022 3:19:00 PM	65969
Surr: BFB	108	70-130		%Rec	1	3/8/2022 3:19:00 PM	65969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/8/2022 3:19:00 PM	65969
Toluene	ND	0.049		mg/Kg	1	3/8/2022 3:19:00 PM	65969
Ethylbenzene	ND	0.049		mg/Kg	1	3/8/2022 3:19:00 PM	65969
Xylenes, Total	ND	0.097		mg/Kg	1	3/8/2022 3:19:00 PM	65969
Surr: 4-Bromofluorobenzene	90.3	70-130		%Rec	1	3/8/2022 3:19:00 PM	65969

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

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

Analytical Report

Lab Order **2203290**

Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-9

Project: Hornbaker BA 2

Collection Date: 3/2/2022 10:05:00 AM

Lab ID: 2203290-011

Matrix: SOIL

Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	680	60		mg/Kg	20	3/10/2022 3:47:38 PM	66090
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/8/2022 2:10:47 PM	66003
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/8/2022 2:10:47 PM	66003
Surr: DNOP	122	51.1-141		%Rec	1	3/8/2022 2:10:47 PM	66003
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/8/2022 4:19:00 PM	65969
Surr: BFB	99.3	70-130		%Rec	1	3/8/2022 4:19:00 PM	65969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/8/2022 4:19:00 PM	65969
Toluene	ND	0.048		mg/Kg	1	3/8/2022 4:19:00 PM	65969
Ethylbenzene	ND	0.048		mg/Kg	1	3/8/2022 4:19:00 PM	65969
Xylenes, Total	ND	0.097		mg/Kg	1	3/8/2022 4:19:00 PM	65969
Surr: 4-Bromofluorobenzene	83.7	70-130		%Rec	1	3/8/2022 4:19:00 PM	65969

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

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

Analytical Report

Lab Order 2203290

Date Reported: 3/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-3

Project: Hornbaker BA 2

Collection Date: 3/2/2022 10:10:00 AM

Lab ID: 2203290-012

Matrix: SOIL

Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	300	60		mg/Kg	20	3/10/2022 3:59:58 PM	66090
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/8/2022 2:21:25 PM	66003
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/8/2022 2:21:25 PM	66003
Surr: DNOP	69.8	51.1-141		%Rec	1	3/8/2022 2:21:25 PM	66003
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/8/2022 4:38:00 PM	65969
Surr: BFB	99.6	70-130		%Rec	1	3/8/2022 4:38:00 PM	65969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/8/2022 4:38:00 PM	65969
Toluene	ND	0.049		mg/Kg	1	3/8/2022 4:38:00 PM	65969
Ethylbenzene	ND	0.049		mg/Kg	1	3/8/2022 4:38:00 PM	65969
Xylenes, Total	ND	0.098		mg/Kg	1	3/8/2022 4:38:00 PM	65969
Surr: 4-Bromofluorobenzene	82.9	70-130		%Rec	1	3/8/2022 4:38:00 PM	65969

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

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

Analytical Report

Lab Order **2203290**

Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-10

Project: Hornbaker BA 2

Collection Date: 3/2/2022 10:15:00 AM

Lab ID: 2203290-013

Matrix: SOIL

Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	590	60		mg/Kg	20	3/10/2022 4:12:19 PM	66090
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/8/2022 2:32:04 PM	66003
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/8/2022 2:32:04 PM	66003
Surr: DNOP	69.6	51.1-141		%Rec	1	3/8/2022 2:32:04 PM	66003
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/8/2022 4:58:00 PM	65969
Surr: BFB	102	70-130		%Rec	1	3/8/2022 4:58:00 PM	65969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/8/2022 4:58:00 PM	65969
Toluene	ND	0.049		mg/Kg	1	3/8/2022 4:58:00 PM	65969
Ethylbenzene	ND	0.049		mg/Kg	1	3/8/2022 4:58:00 PM	65969
Xylenes, Total	ND	0.098		mg/Kg	1	3/8/2022 4:58:00 PM	65969
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	3/8/2022 4:58:00 PM	65969

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

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

Analytical Report

Lab Order **2203290**

Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-11

Project: Hornbaker BA 2

Collection Date: 3/2/2022 11:00:00 AM

Lab ID: 2203290-014

Matrix: SOIL

Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	450	61		mg/Kg	20	3/10/2022 4:24:40 PM	66090
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/8/2022 2:42:44 PM	66003
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/8/2022 2:42:44 PM	66003
Surr: DNOP	60.5	51.1-141		%Rec	1	3/8/2022 2:42:44 PM	66003
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/8/2022 5:18:00 PM	65969
Surr: BFB	101	70-130		%Rec	1	3/8/2022 5:18:00 PM	65969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/8/2022 5:18:00 PM	65969
Toluene	ND	0.047		mg/Kg	1	3/8/2022 5:18:00 PM	65969
Ethylbenzene	ND	0.047		mg/Kg	1	3/8/2022 5:18:00 PM	65969
Xylenes, Total	ND	0.094		mg/Kg	1	3/8/2022 5:18:00 PM	65969
Surr: 4-Bromofluorobenzene	87.9	70-130		%Rec	1	3/8/2022 5:18:00 PM	65969

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

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

Analytical Report

Lab Order **2203290**

Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-4

Project: Hornbaker BA 2

Collection Date: 3/2/2022 11:10:00 AM

Lab ID: 2203290-015

Matrix: SOIL

Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	290	60		mg/Kg	20	3/10/2022 4:37:01 PM	66090
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/8/2022 2:53:35 PM	66003
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/8/2022 2:53:35 PM	66003
Surr: DNOP	69.4	51.1-141		%Rec	1	3/8/2022 2:53:35 PM	66003
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/8/2022 5:38:00 PM	65969
Surr: BFB	102	70-130		%Rec	1	3/8/2022 5:38:00 PM	65969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/8/2022 5:38:00 PM	65969
Toluene	ND	0.049		mg/Kg	1	3/8/2022 5:38:00 PM	65969
Ethylbenzene	ND	0.049		mg/Kg	1	3/8/2022 5:38:00 PM	65969
Xylenes, Total	ND	0.098		mg/Kg	1	3/8/2022 5:38:00 PM	65969
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	3/8/2022 5:38:00 PM	65969

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

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

Analytical Report

Lab Order 2203290

Date Reported: 3/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-12

Project: Hornbaker BA 2

Collection Date: 3/2/2022 11:20:00 AM

Lab ID: 2203290-016

Matrix: SOIL

Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1500	60		mg/Kg	20	3/10/2022 4:49:22 PM	66090
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/8/2022 3:31:07 PM	66003
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/8/2022 3:31:07 PM	66003
Surr: DNOP	83.2	51.1-141		%Rec	1	3/8/2022 3:31:07 PM	66003
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/8/2022 5:57:00 PM	65969
Surr: BFB	103	70-130		%Rec	1	3/8/2022 5:57:00 PM	65969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/8/2022 5:57:00 PM	65969
Toluene	ND	0.049		mg/Kg	1	3/8/2022 5:57:00 PM	65969
Ethylbenzene	ND	0.049		mg/Kg	1	3/8/2022 5:57:00 PM	65969
Xylenes, Total	ND	0.098		mg/Kg	1	3/8/2022 5:57:00 PM	65969
Surr: 4-Bromofluorobenzene	88.0	70-130		%Rec	1	3/8/2022 5:57:00 PM	65969

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

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

Analytical Report

Lab Order **2203290**

Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-13

Project: Hornbaker BA 2

Collection Date: 3/2/2022 12:00:00 PM

Lab ID: 2203290-017

Matrix: SOIL

Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1100	60		mg/Kg	20	3/10/2022 4:39:26 PM	66092
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/8/2022 3:42:04 PM	66003
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/8/2022 3:42:04 PM	66003
Surr: DNOP	115	51.1-141		%Rec	1	3/8/2022 3:42:04 PM	66003
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/8/2022 6:17:00 PM	65969
Surr: BFB	103	70-130		%Rec	1	3/8/2022 6:17:00 PM	65969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/8/2022 6:17:00 PM	65969
Toluene	ND	0.050		mg/Kg	1	3/8/2022 6:17:00 PM	65969
Ethylbenzene	ND	0.050		mg/Kg	1	3/8/2022 6:17:00 PM	65969
Xylenes, Total	ND	0.10		mg/Kg	1	3/8/2022 6:17:00 PM	65969
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	3/8/2022 6:17:00 PM	65969

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

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

Analytical Report

Lab Order 2203290

Date Reported: 3/16/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-5

Project: Hornbaker BA 2

Collection Date: 3/2/2022 12:20:00 PM

Lab ID: 2203290-018

Matrix: SOIL

Received Date: 3/4/2022 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	3/10/2022 4:51:50 PM	66092
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/9/2022 7:35:10 PM	66003
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/9/2022 7:35:10 PM	66003
Surr: DNOP	84.2	51.1-141		%Rec	1	3/9/2022 7:35:10 PM	66003
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/8/2022 6:37:00 PM	65969
Surr: BFB	102	70-130		%Rec	1	3/8/2022 6:37:00 PM	65969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/8/2022 6:37:00 PM	65969
Toluene	ND	0.049		mg/Kg	1	3/8/2022 6:37:00 PM	65969
Ethylbenzene	ND	0.049		mg/Kg	1	3/8/2022 6:37:00 PM	65969
Xylenes, Total	ND	0.098		mg/Kg	1	3/8/2022 6:37:00 PM	65969
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	1	3/8/2022 6:37:00 PM	65969

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

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

Analytical Report

Lab Order **2203290**

Date Reported: **3/16/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-14

Project: Hornbaker BA 2

Collection Date: 3/2/2022 12:45:00 PM

Lab ID: 2203290-019

Matrix: SOIL

Received Date: 3/4/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	790	60		mg/Kg	20	3/10/2022 5:53:50 PM	66092
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	3/8/2022 4:03:58 PM	66003
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/8/2022 4:03:58 PM	66003
Surr: DNOP	59.2	51.1-141		%Rec	1	3/8/2022 4:03:58 PM	66003
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/8/2022 6:57:00 PM	65969
Surr: BFB	103	70-130		%Rec	1	3/8/2022 6:57:00 PM	65969
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/8/2022 6:57:00 PM	65969
Toluene	ND	0.046		mg/Kg	1	3/8/2022 6:57:00 PM	65969
Ethylbenzene	ND	0.046		mg/Kg	1	3/8/2022 6:57:00 PM	65969
Xylenes, Total	ND	0.092		mg/Kg	1	3/8/2022 6:57:00 PM	65969
Surr: 4-Bromofluorobenzene	86.1	70-130		%Rec	1	3/8/2022 6:57:00 PM	65969

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203290

16-Mar-22

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: MB-66092	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66092	RunNo: 86387								
Prep Date: 3/10/2022	Analysis Date: 3/10/2022	SeqNo: 3047811	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66092	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66092	RunNo: 86387								
Prep Date: 3/10/2022	Analysis Date: 3/10/2022	SeqNo: 3047812	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.1	90	110			

Sample ID: MB-66090	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66090	RunNo: 86405								
Prep Date: 3/10/2022	Analysis Date: 3/10/2022	SeqNo: 3048035	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66090	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66090	RunNo: 86405								
Prep Date: 3/10/2022	Analysis Date: 3/10/2022	SeqNo: 3048036	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203290

16-Mar-22

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: 2203290-007AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW-1	Batch ID: 66003	RunNo: 86343								
Prep Date: 3/7/2022	Analysis Date: 3/8/2022	SeqNo: 3045119	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	64	9.5	47.66	8.632	117	36.1	154			
Surr: DNOP	6.4		4.766		133	51.1	141			

Sample ID: 2203290-007AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: SW-1	Batch ID: 66003	RunNo: 86343								
Prep Date: 3/7/2022	Analysis Date: 3/8/2022	SeqNo: 3045120	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	71	8.5	42.66	8.632	146	36.1	154	9.80	33.9	
Surr: DNOP	4.1		4.266		95.9	51.1	141	0	0	

Sample ID: LCS-65999	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 65999	RunNo: 86343								
Prep Date: 3/7/2022	Analysis Date: 3/8/2022	SeqNo: 3045216	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	107	68.9	135			
Surr: DNOP	5.9		5.000		118	51.1	141			

Sample ID: LCS-66002	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66002	RunNo: 86343								
Prep Date: 3/7/2022	Analysis Date: 3/8/2022	SeqNo: 3045218	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		97.3	51.1	141			

Sample ID: LCS-66003	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66003	RunNo: 86343								
Prep Date: 3/7/2022	Analysis Date: 3/8/2022	SeqNo: 3045219	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.4	68.9	135			
Surr: DNOP	5.1		5.000		102	51.1	141			

Sample ID: MB-65999	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 65999	RunNo: 86343								
Prep Date: 3/7/2022	Analysis Date: 3/8/2022	SeqNo: 3045222	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203290

16-Mar-22

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: MB-65999	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 65999		RunNo: 86343							
Prep Date: 3/7/2022	Analysis Date: 3/8/2022		SeqNo: 3045222	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		126	51.1	141			

Sample ID: MB-66002	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 66002		RunNo: 86343							
Prep Date: 3/7/2022	Analysis Date: 3/8/2022		SeqNo: 3045226	Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		100	51.1	141			

Sample ID: MB-66003	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 66003		RunNo: 86343							
Prep Date: 3/7/2022	Analysis Date: 3/8/2022		SeqNo: 3045227	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	14		10.00		137	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203290

16-Mar-22

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: ics-65969	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 65969		RunNo: 86332							
Prep Date: 3/4/2022	Analysis Date: 3/8/2022		SeqNo: 3044337		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	78.6	131			
Surr: BFB	1100		1000		115	70	130			

Sample ID: mb-65969	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 65969		RunNo: 86332							
Prep Date: 3/4/2022	Analysis Date: 3/8/2022		SeqNo: 3044338		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		105	70	130			

Sample ID: 2203290-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH-1	Batch ID: 65969		RunNo: 86332							
Prep Date: 3/4/2022	Analysis Date: 3/8/2022		SeqNo: 3044340		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.7	23.70	0	93.2	70	130			
Surr: BFB	1100		947.9		120	70	130			

Sample ID: 2203290-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH-1	Batch ID: 65969		RunNo: 86332							
Prep Date: 3/4/2022	Analysis Date: 3/8/2022		SeqNo: 3044341		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.7	23.72	0	97.4	70	130	4.46	20	
Surr: BFB	1100		948.8		115	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203290

16-Mar-22

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: ics-65969	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 65969		RunNo: 86332							
Prep Date: 3/4/2022	Analysis Date: 3/8/2022		SeqNo: 3044414		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	99.2	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.0	70	130			

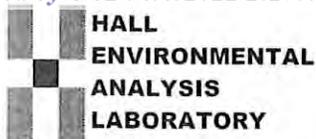
Sample ID: mb-65969	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 65969		RunNo: 86332							
Prep Date: 3/4/2022	Analysis Date: 3/8/2022		SeqNo: 3044415		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		88.0	70	130			

Sample ID: 2203290-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH-2	Batch ID: 65969		RunNo: 86332							
Prep Date: 3/4/2022	Analysis Date: 3/8/2022		SeqNo: 3044418		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	0.9872	0	87.1	68.8	120			
Toluene	0.90	0.049	0.9872	0	90.8	73.6	124			
Ethylbenzene	0.92	0.049	0.9872	0	92.7	72.7	129			
Xylenes, Total	2.7	0.099	2.962	0	92.0	75.7	126			
Surr: 4-Bromofluorobenzene	0.85		0.9872		86.2	70	130			

Sample ID: 2203290-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH-2	Batch ID: 65969		RunNo: 86332							
Prep Date: 3/4/2022	Analysis Date: 3/8/2022		SeqNo: 3044419		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.024	0.9775	0	87.5	68.8	120	0.445	20	
Toluene	0.90	0.049	0.9775	0	92.2	73.6	124	0.545	20	
Ethylbenzene	0.92	0.049	0.9775	0	93.8	72.7	129	0.168	20	
Xylenes, Total	2.7	0.098	2.933	0	93.0	75.7	126	0.188	20	
Surr: 4-Bromofluorobenzene	0.86		0.9775		87.5	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2203290

RcptNo: 1

Received By: Cheyenne Cason 3/4/2022 8:00:00 AM

Completed By: Sean Livingston 3/4/2022 8:41:06 AM

Reviewed By: JR 3/4/22

Handwritten signatures: Cason, Sean Livingston

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: KPA 3/4/22

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: Date:
By Whom: Via: [] eMail [] Phone [] Fax [] In Person
Regarding:
Client Instructions:

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Rows 1 and 2.

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:

Houlihan BSA #2

Project #:

1238980

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: Yes No

of Coolers: 2 5.1 - 0.2 = 4.9

Cooler Temp (including CF): 1.3 - 0.2 = 1.1

Container Type and #

Preservative Type

HEAL No. 2203290

Date Time Matrix Sample Name

0827 0820 ES BH-1

0827 0825 BH-2

0810 0810 BH-3

0815 0815 BH-4

0820 0820 BH-5

0900 0900 BH-6

0905 0905 SW-1

0910 0910 SW-2

0915 0915 BH-7

1000 1000 BH-8

1005 1005 BH-9

1010 1010 SW-3

Date Time

03027 0800 Relinquished by: *Zach Comino*

3/17/20 1900 Relinquished by: *Becky Haskell*

3/17/20 1900 Relinquished by: *Becky Haskell*

3/17/20 1900 Relinquished by: *Becky Haskell*

Received by: *Becky Haskell*

Date Time 3/13/20 300

Via: *Becky Haskell*

Date Time 3/14/20 0800

Via: *Becky Haskell*

Date Time 3/14/20 0800

Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com; Matthew.Laughlin@ghd.com; Along with Becky Haskell listed above.

Direct Bill to EOG Chase Settle

Analysis Request

BTEX / MTBE / TMB's (8024)	✓
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)	✓

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

Turn-Around Time: Standard Rush 5-Day

Project Name: Hambaker BA #2

Project #: 1728980

Project Manager: Becky Haskell
Tom Larson

Sampler: Zach Comino

On Ice: Yes No

of Coolers: 2 5.1-0.2 = 4.9

Cooler Temp (including CF): 1, 3-0.2 = 1.1

Container Type and #

Preservative Type

HEAL No.

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)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
030222	1015	S	BH-10	Jar		013	✓									
	1100		BH-11			014										
	1100		SW-4			015										
	1120		BH-12			016										
	1200		BH-13			017										
	1220		SW-5			018										
	1245		BH-14			019										

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

Received by: [Signature] Date 3/3/22 Time 9:00

Relinquished by: [Signature]

Received by: [Signature] Date 3/3/22 Time 0800

Relinquished by: [Signature]

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



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

March 21, 2022

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

RE: Hornbaker BA 2

OrderNo.: 2203356

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 19 sample(s) on 3/5/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2203356

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-6

Project: Hornbaker BA 2

Collection Date: 3/3/2022 8:00:00 AM

Lab ID: 2203356-001

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	120	60		mg/Kg	20	3/11/2022 6:06:00 PM	66135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/9/2022 7:23:33 PM	66042
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/9/2022 7:23:33 PM	66042
Surr: DNOP	85.8	51.1-141		%Rec	1	3/9/2022 7:23:33 PM	66042
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/11/2022 3:25:18 PM	66034
Surr: BFB	106	70-130		%Rec	1	3/11/2022 3:25:18 PM	66034
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/11/2022 3:25:18 PM	66034
Toluene	ND	0.049		mg/Kg	1	3/11/2022 3:25:18 PM	66034
Ethylbenzene	ND	0.049		mg/Kg	1	3/11/2022 3:25:18 PM	66034
Xylenes, Total	ND	0.099		mg/Kg	1	3/11/2022 3:25:18 PM	66034
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	3/11/2022 3:25:18 PM	66034

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

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

Analytical Report

Lab Order 2203356

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-15

Project: Hornbaker BA 2

Collection Date: 3/3/2022 8:05:00 AM

Lab ID: 2203356-002

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1800	60		mg/Kg	20	3/11/2022 6:43:13 PM	66135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/9/2022 7:34:15 PM	66042
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/9/2022 7:34:15 PM	66042
Surr: DNOP	83.6	51.1-141		%Rec	1	3/9/2022 7:34:15 PM	66042
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/11/2022 3:49:00 PM	66034
Surr: BFB	107	70-130		%Rec	1	3/11/2022 3:49:00 PM	66034
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/11/2022 3:49:00 PM	66034
Toluene	ND	0.049		mg/Kg	1	3/11/2022 3:49:00 PM	66034
Ethylbenzene	ND	0.049		mg/Kg	1	3/11/2022 3:49:00 PM	66034
Xylenes, Total	ND	0.099		mg/Kg	1	3/11/2022 3:49:00 PM	66034
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	3/11/2022 3:49:00 PM	66034

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

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

Analytical Report

Lab Order 2203356

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-16

Project: Hornbaker BA 2

Collection Date: 3/3/2022 8:10:00 AM

Lab ID: 2203356-003

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1300	60		mg/Kg	20	3/11/2022 6:55:37 PM	66135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/9/2022 7:44:55 PM	66042
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/9/2022 7:44:55 PM	66042
Surr: DNOP	92.3	51.1-141		%Rec	1	3/9/2022 7:44:55 PM	66042
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/11/2022 4:12:44 PM	66034
Surr: BFB	106	70-130		%Rec	1	3/11/2022 4:12:44 PM	66034
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/11/2022 4:12:44 PM	66034
Toluene	ND	0.050		mg/Kg	1	3/11/2022 4:12:44 PM	66034
Ethylbenzene	ND	0.050		mg/Kg	1	3/11/2022 4:12:44 PM	66034
Xylenes, Total	ND	0.099		mg/Kg	1	3/11/2022 4:12:44 PM	66034
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	3/11/2022 4:12:44 PM	66034

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

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

Analytical Report

Lab Order 2203356

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-17

Project: Hornbaker BA 2

Collection Date: 3/3/2022 8:15:00 AM

Lab ID: 2203356-004

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1500	60		mg/Kg	20	3/11/2022 7:08:01 PM	66135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/9/2022 7:55:36 PM	66042
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/9/2022 7:55:36 PM	66042
Surr: DNOP	75.5	51.1-141		%Rec	1	3/9/2022 7:55:36 PM	66042
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/11/2022 4:36:22 PM	66034
Surr: BFB	106	70-130		%Rec	1	3/11/2022 4:36:22 PM	66034
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/11/2022 4:36:22 PM	66034
Toluene	ND	0.049		mg/Kg	1	3/11/2022 4:36:22 PM	66034
Ethylbenzene	ND	0.049		mg/Kg	1	3/11/2022 4:36:22 PM	66034
Xylenes, Total	ND	0.099		mg/Kg	1	3/11/2022 4:36:22 PM	66034
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	3/11/2022 4:36:22 PM	66034

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

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

Analytical Report

Lab Order 2203356

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-18

Project: Hornbaker BA 2

Collection Date: 3/3/2022 9:00:00 AM

Lab ID: 2203356-005

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	710	60		mg/Kg	20	3/11/2022 7:20:26 PM	66135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/9/2022 8:06:15 PM	66042
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/9/2022 8:06:15 PM	66042
Surr: DNOP	73.6	51.1-141		%Rec	1	3/9/2022 8:06:15 PM	66042
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/11/2022 5:00:02 PM	66034
Surr: BFB	104	70-130		%Rec	1	3/11/2022 5:00:02 PM	66034
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/11/2022 5:00:02 PM	66034
Toluene	ND	0.049		mg/Kg	1	3/11/2022 5:00:02 PM	66034
Ethylbenzene	ND	0.049		mg/Kg	1	3/11/2022 5:00:02 PM	66034
Xylenes, Total	ND	0.098		mg/Kg	1	3/11/2022 5:00:02 PM	66034
Surr: 4-Bromofluorobenzene	95.2	70-130		%Rec	1	3/11/2022 5:00:02 PM	66034

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

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

Analytical Report

Lab Order 2203356

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-19

Project: Hornbaker BA 2

Collection Date: 3/3/2022 9:05:00 AM

Lab ID: 2203356-006

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1500	60		mg/Kg	20	3/11/2022 7:32:51 PM	66135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/9/2022 8:16:51 PM	66042
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/9/2022 8:16:51 PM	66042
Surr: DNOP	83.3	51.1-141		%Rec	1	3/9/2022 8:16:51 PM	66042
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/11/2022 5:23:37 PM	66034
Surr: BFB	105	70-130		%Rec	1	3/11/2022 5:23:37 PM	66034
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/11/2022 5:23:37 PM	66034
Toluene	ND	0.047		mg/Kg	1	3/11/2022 5:23:37 PM	66034
Ethylbenzene	ND	0.047		mg/Kg	1	3/11/2022 5:23:37 PM	66034
Xylenes, Total	ND	0.094		mg/Kg	1	3/11/2022 5:23:37 PM	66034
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	3/11/2022 5:23:37 PM	66034

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

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

Analytical Report

Lab Order 2203356

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-20

Project: Hornbaker BA 2

Collection Date: 3/3/2022 9:10:00 AM

Lab ID: 2203356-007

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	920	60		mg/Kg	20	3/11/2022 8:10:07 PM	66135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/10/2022 1:06:49 PM	66050
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/10/2022 1:06:49 PM	66050
Surr: DNOP	103	51.1-141		%Rec	1	3/10/2022 1:06:49 PM	66050
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/11/2022 5:47:20 PM	66034
Surr: BFB	108	70-130		%Rec	1	3/11/2022 5:47:20 PM	66034
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/11/2022 5:47:20 PM	66034
Toluene	ND	0.047		mg/Kg	1	3/11/2022 5:47:20 PM	66034
Ethylbenzene	ND	0.047		mg/Kg	1	3/11/2022 5:47:20 PM	66034
Xylenes, Total	ND	0.095		mg/Kg	1	3/11/2022 5:47:20 PM	66034
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	3/11/2022 5:47:20 PM	66034

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

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

Analytical Report

Lab Order 2203356

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-21

Project: Hornbaker BA 2

Collection Date: 3/3/2022 9:15:00 AM

Lab ID: 2203356-008

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1000	60		mg/Kg	20	3/11/2022 8:22:32 PM	66135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/10/2022 8:50:22 AM	66066
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/10/2022 8:50:22 AM	66066
Surr: DNOP	85.6	51.1-141		%Rec	1	3/10/2022 8:50:22 AM	66066
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/11/2022 6:11:04 PM	66034
Surr: BFB	111	70-130		%Rec	1	3/11/2022 6:11:04 PM	66034
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/11/2022 6:11:04 PM	66034
Toluene	ND	0.049		mg/Kg	1	3/11/2022 6:11:04 PM	66034
Ethylbenzene	ND	0.049		mg/Kg	1	3/11/2022 6:11:04 PM	66034
Xylenes, Total	ND	0.098		mg/Kg	1	3/11/2022 6:11:04 PM	66034
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	3/11/2022 6:11:04 PM	66034

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

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

Analytical Report

Lab Order 2203356

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-22

Project: Hornbaker BA 2

Collection Date: 3/3/2022 9:20:00 AM

Lab ID: 2203356-009

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1700	60		mg/Kg	20	3/11/2022 8:34:56 PM	66135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/10/2022 12:00:37 PM	66066
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/10/2022 12:00:37 PM	66066
Surr: DNOP	94.5	51.1-141		%Rec	1	3/10/2022 12:00:37 PM	66066
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/11/2022 6:34:45 PM	66034
Surr: BFB	109	70-130		%Rec	1	3/11/2022 6:34:45 PM	66034
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/11/2022 6:34:45 PM	66034
Toluene	ND	0.050		mg/Kg	1	3/11/2022 6:34:45 PM	66034
Ethylbenzene	ND	0.050		mg/Kg	1	3/11/2022 6:34:45 PM	66034
Xylenes, Total	ND	0.10		mg/Kg	1	3/11/2022 6:34:45 PM	66034
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	3/11/2022 6:34:45 PM	66034

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

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

Analytical Report

Lab Order 2203356

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-23

Project: Hornbaker BA 2

Collection Date: 3/3/2022 10:00:00 AM

Lab ID: 2203356-010

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2100	60		mg/Kg	20	3/11/2022 8:47:21 PM	66135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	3/10/2022 12:15:00 PM	66066
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	3/10/2022 12:15:00 PM	66066
Surr: DNOP	120	51.1-141		%Rec	1	3/10/2022 12:15:00 PM	66066
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/11/2022 6:58:26 PM	66034
Surr: BFB	108	70-130		%Rec	1	3/11/2022 6:58:26 PM	66034
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/11/2022 6:58:26 PM	66034
Toluene	ND	0.048		mg/Kg	1	3/11/2022 6:58:26 PM	66034
Ethylbenzene	ND	0.048		mg/Kg	1	3/11/2022 6:58:26 PM	66034
Xylenes, Total	ND	0.096		mg/Kg	1	3/11/2022 6:58:26 PM	66034
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/11/2022 6:58:26 PM	66034

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

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

Analytical Report

Lab Order 2203356

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-24

Project: Hornbaker BA 2

Collection Date: 3/3/2022 10:05:00 AM

Lab ID: 2203356-011

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1600	60		mg/Kg	20	3/11/2022 8:59:45 PM	66135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/10/2022 12:29:19 PM	66066
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/10/2022 12:29:19 PM	66066
Surr: DNOP	73.5	51.1-141		%Rec	1	3/10/2022 12:29:19 PM	66066
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/11/2022 8:09:21 PM	66034
Surr: BFB	108	70-130		%Rec	1	3/11/2022 8:09:21 PM	66034
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/11/2022 8:09:21 PM	66034
Toluene	ND	0.050		mg/Kg	1	3/11/2022 8:09:21 PM	66034
Ethylbenzene	ND	0.050		mg/Kg	1	3/11/2022 8:09:21 PM	66034
Xylenes, Total	ND	0.10		mg/Kg	1	3/11/2022 8:09:21 PM	66034
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	3/11/2022 8:09:21 PM	66034

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

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

Analytical Report

Lab Order 2203356

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-25

Project: Hornbaker BA 2

Collection Date: 3/3/2022 10:10:00 AM

Lab ID: 2203356-012

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1600	60		mg/Kg	20	3/11/2022 9:12:11 PM	66135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/11/2022 8:32:46 AM	66066
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/11/2022 8:32:46 AM	66066
Surr: DNOP	89.3	51.1-141		%Rec	1	3/11/2022 8:32:46 AM	66066
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/11/2022 8:32:57 PM	66034
Surr: BFB	109	70-130		%Rec	1	3/11/2022 8:32:57 PM	66034
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/11/2022 8:32:57 PM	66034
Toluene	ND	0.050		mg/Kg	1	3/11/2022 8:32:57 PM	66034
Ethylbenzene	ND	0.050		mg/Kg	1	3/11/2022 8:32:57 PM	66034
Xylenes, Total	ND	0.099		mg/Kg	1	3/11/2022 8:32:57 PM	66034
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	3/11/2022 8:32:57 PM	66034

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

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

Analytical Report

Lab Order 2203356

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-26

Project: Hornbaker BA 2

Collection Date: 3/3/2022 11:00:00 AM

Lab ID: 2203356-013

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2100	60		mg/Kg	20	3/11/2022 9:24:35 PM	66135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/11/2022 8:56:42 AM	66066
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/11/2022 8:56:42 AM	66066
Surr: DNOP	100	51.1-141		%Rec	1	3/11/2022 8:56:42 AM	66066
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/11/2022 8:56:29 PM	66034
Surr: BFB	106	70-130		%Rec	1	3/11/2022 8:56:29 PM	66034
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/11/2022 8:56:29 PM	66034
Toluene	ND	0.050		mg/Kg	1	3/11/2022 8:56:29 PM	66034
Ethylbenzene	ND	0.050		mg/Kg	1	3/11/2022 8:56:29 PM	66034
Xylenes, Total	ND	0.10		mg/Kg	1	3/11/2022 8:56:29 PM	66034
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	3/11/2022 8:56:29 PM	66034

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

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

Analytical Report

Lab Order 2203356

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-27

Project: Hornbaker BA 2

Collection Date: 3/3/2022 11:05:00 AM

Lab ID: 2203356-014

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2300	60		mg/Kg	20	3/11/2022 9:37:00 PM	66135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/11/2022 9:20:38 AM	66066
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/11/2022 9:20:38 AM	66066
Surr: DNOP	107	51.1-141		%Rec	1	3/11/2022 9:20:38 AM	66066
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/11/2022 9:20:00 PM	66034
Surr: BFB	106	70-130		%Rec	1	3/11/2022 9:20:00 PM	66034
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/11/2022 9:20:00 PM	66034
Toluene	ND	0.050		mg/Kg	1	3/11/2022 9:20:00 PM	66034
Ethylbenzene	ND	0.050		mg/Kg	1	3/11/2022 9:20:00 PM	66034
Xylenes, Total	ND	0.099		mg/Kg	1	3/11/2022 9:20:00 PM	66034
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	3/11/2022 9:20:00 PM	66034

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

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

Analytical Report

Lab Order 2203356

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-28

Project: Hornbaker BA 2

Collection Date: 3/3/2022 11:10:00 AM

Lab ID: 2203356-015

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	2300	150		mg/Kg	50	3/14/2022 2:43:07 PM	66135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/11/2022 9:44:39 AM	66066
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/11/2022 9:44:39 AM	66066
Surr: DNOP	127	51.1-141		%Rec	1	3/11/2022 9:44:39 AM	66066
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/11/2022 9:43:29 PM	66034
Surr: BFB	105	70-130		%Rec	1	3/11/2022 9:43:29 PM	66034
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/11/2022 9:43:29 PM	66034
Toluene	ND	0.049		mg/Kg	1	3/11/2022 9:43:29 PM	66034
Ethylbenzene	ND	0.049		mg/Kg	1	3/11/2022 9:43:29 PM	66034
Xylenes, Total	ND	0.098		mg/Kg	1	3/11/2022 9:43:29 PM	66034
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/11/2022 9:43:29 PM	66034

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

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

Analytical Report

Lab Order 2203356

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-29

Project: Hornbaker BA 2

Collection Date: 3/3/2022 12:00:00 PM

Lab ID: 2203356-016

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2300	60		mg/Kg	20	3/11/2022 10:01:49 PM	66135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/11/2022 10:08:30 AM	66066
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/11/2022 10:08:30 AM	66066
Surr: DNOP	125	51.1-141		%Rec	1	3/11/2022 10:08:30 AM	66066
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/10/2022 5:55:00 PM	66052
Surr: BFB	107	70-130		%Rec	1	3/10/2022 5:55:00 PM	66052
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/10/2022 5:55:00 PM	66052
Toluene	ND	0.049		mg/Kg	1	3/10/2022 5:55:00 PM	66052
Ethylbenzene	ND	0.049		mg/Kg	1	3/10/2022 5:55:00 PM	66052
Xylenes, Total	ND	0.099		mg/Kg	1	3/10/2022 5:55:00 PM	66052
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	3/10/2022 5:55:00 PM	66052

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

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

Analytical Report

Lab Order 2203356

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-30

Project: Hornbaker BA 2

Collection Date: 3/3/2022 12:05:00 PM

Lab ID: 2203356-017

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	2300	150		mg/Kg	50	3/14/2022 2:55:31 PM	66135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/11/2022 10:32:17 AM	66066
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/11/2022 10:32:17 AM	66066
Surr: DNOP	91.6	51.1-141		%Rec	1	3/11/2022 10:32:17 AM	66066
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/10/2022 6:15:00 PM	66052
Surr: BFB	100	70-130		%Rec	1	3/10/2022 6:15:00 PM	66052
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/10/2022 6:15:00 PM	66052
Toluene	ND	0.050		mg/Kg	1	3/10/2022 6:15:00 PM	66052
Ethylbenzene	ND	0.050		mg/Kg	1	3/10/2022 6:15:00 PM	66052
Xylenes, Total	ND	0.10		mg/Kg	1	3/10/2022 6:15:00 PM	66052
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	1	3/10/2022 6:15:00 PM	66052

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

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

Analytical Report

Lab Order 2203356

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-31

Project: Hornbaker BA 2

Collection Date: 3/3/2022 12:10:00 PM

Lab ID: 2203356-018

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	200	60		mg/Kg	20	3/11/2022 10:51:27 PM	66135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/11/2022 10:56:11 AM	66066
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/11/2022 10:56:11 AM	66066
Surr: DNOP	75.3	51.1-141		%Rec	1	3/11/2022 10:56:11 AM	66066
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/10/2022 6:35:00 PM	66052
Surr: BFB	102	70-130		%Rec	1	3/10/2022 6:35:00 PM	66052
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/10/2022 6:35:00 PM	66052
Toluene	ND	0.050		mg/Kg	1	3/10/2022 6:35:00 PM	66052
Ethylbenzene	ND	0.050		mg/Kg	1	3/10/2022 6:35:00 PM	66052
Xylenes, Total	ND	0.10		mg/Kg	1	3/10/2022 6:35:00 PM	66052
Surr: 4-Bromofluorobenzene	85.1	70-130		%Rec	1	3/10/2022 6:35:00 PM	66052

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

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

Analytical Report

Lab Order 2203356

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-7

Project: Hornbaker BA 2

Collection Date: 3/3/2022 12:15:00 PM

Lab ID: 2203356-019

Matrix: SOIL

Received Date: 3/5/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	130	60		mg/Kg	20	3/11/2022 11:03:52 PM	66135
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/11/2022 11:19:57 AM	66066
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2022 11:19:57 AM	66066
Surr: DNOP	70.8	51.1-141		%Rec	1	3/11/2022 11:19:57 AM	66066
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/10/2022 6:54:00 PM	66052
Surr: BFB	102	70-130		%Rec	1	3/10/2022 6:54:00 PM	66052
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/10/2022 6:54:00 PM	66052
Toluene	ND	0.048		mg/Kg	1	3/10/2022 6:54:00 PM	66052
Ethylbenzene	ND	0.048		mg/Kg	1	3/10/2022 6:54:00 PM	66052
Xylenes, Total	ND	0.097		mg/Kg	1	3/10/2022 6:54:00 PM	66052
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	3/10/2022 6:54:00 PM	66052

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203356

21-Mar-22

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: MB-66135	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66135	RunNo: 86442								
Prep Date: 3/11/2022	Analysis Date: 3/11/2022	SeqNo: 3049666	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66135	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66135	RunNo: 86442								
Prep Date: 3/11/2022	Analysis Date: 3/11/2022	SeqNo: 3049667	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.5	90	110			

Sample ID: 2203356-001AMSD	SampType: msd	TestCode: EPA Method 300.0: Anions								
Client ID: SW-6	Batch ID: 66135	RunNo: 86442								
Prep Date: 3/11/2022	Analysis Date: 3/11/2022	SeqNo: 3049670	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	140	60	30.00	117.8	74.4	57.5	166	5.17	20	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203356

21-Mar-22

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: MB-66042	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66042	RunNo: 86364								
Prep Date: 3/8/2022	Analysis Date: 3/9/2022	SeqNo: 3045934	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.2	51.1	141			

Sample ID: LCS-66042	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66042	RunNo: 86364								
Prep Date: 3/8/2022	Analysis Date: 3/9/2022	SeqNo: 3045937	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.2	68.9	135			
Surr: DNOP	4.4		5.000		88.9	51.1	141			

Sample ID: MB-66066	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66066	RunNo: 86377								
Prep Date: 3/9/2022	Analysis Date: 3/10/2022	SeqNo: 3046493	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		97.1	51.1	141			

Sample ID: LCS-66066	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66066	RunNo: 86377								
Prep Date: 3/9/2022	Analysis Date: 3/10/2022	SeqNo: 3046494	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	4.5		5.000		90.9	51.1	141			

Sample ID: 2203356-008AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-21	Batch ID: 66066	RunNo: 86377								
Prep Date: 3/9/2022	Analysis Date: 3/10/2022	SeqNo: 3046591	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	8.9	44.48	0	95.8	36.1	154			
Surr: DNOP	4.1		4.448		92.5	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203356

21-Mar-22

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: 2203356-008AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-21	Batch ID: 66066	RunNo: 86377								
Prep Date: 3/9/2022	Analysis Date: 3/10/2022	SeqNo: 3046592	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.4	46.82	0	98.8	36.1	154	8.23	33.9	
Surr: DNOP	4.2		4.682		89.7	51.1	141	0	0	

Sample ID: MB-66050	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66050	RunNo: 86373								
Prep Date: 3/9/2022	Analysis Date: 3/10/2022	SeqNo: 3047399	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	12		10.00		116	51.1	141			

Sample ID: LCS-66050	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66050	RunNo: 86373								
Prep Date: 3/9/2022	Analysis Date: 3/10/2022	SeqNo: 3047414	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	91	10	100.0	0	91.3	68.9	135			
Surr: DNOP	9.9		10.00		99.3	51.1	141			

Sample ID: MB-66078	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66078	RunNo: 86400								
Prep Date: 3/10/2022	Analysis Date: 3/11/2022	SeqNo: 3048585	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.9		10.00		99.4	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203356

21-Mar-22

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: ics-66025	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 66025		RunNo: 86391							
Prep Date: 3/8/2022	Analysis Date: 3/10/2022		SeqNo: 3047898				Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2300		1000		231	70	130			S

Sample ID: mb-66025	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 66025		RunNo: 86391							
Prep Date: 3/8/2022	Analysis Date: 3/10/2022		SeqNo: 3047899				Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		102	70	130			

Sample ID: ics-66052	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 66052		RunNo: 86391							
Prep Date: 3/9/2022	Analysis Date: 3/10/2022		SeqNo: 3047923				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	2400		1000		235	70	130			S

Sample ID: mb-66052	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 66052		RunNo: 86391							
Prep Date: 3/9/2022	Analysis Date: 3/10/2022		SeqNo: 3047924				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		106	70	130			

Sample ID: mb-66034	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 66034		RunNo: 86431							
Prep Date: 3/8/2022	Analysis Date: 3/11/2022		SeqNo: 3049152				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	1300		1000		125	70	130			

Sample ID: ics-66034	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 66034		RunNo: 86431							
Prep Date: 3/8/2022	Analysis Date: 3/11/2022		SeqNo: 3049153				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	5.0	25.00	0	128	78.6	131			
Surr: BFB	2600		1000		263	70	130			S

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203356

21-Mar-22

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: 2203356-016ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH-29	Batch ID: 66052		RunNo: 86391							
Prep Date: 3/9/2022	Analysis Date: 3/10/2022		SeqNo: 3047945		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9588	0	95.1	68.8	120			
Toluene	0.95	0.048	0.9588	0	99.4	73.6	124			
Ethylbenzene	0.99	0.048	0.9588	0	103	72.7	129			
Xylenes, Total	2.9	0.096	2.876	0	102	75.7	126			
Surr: 4-Bromofluorobenzene	0.88		0.9588		92.2	70	130			

Sample ID: 2203356-016amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH-29	Batch ID: 66052		RunNo: 86391							
Prep Date: 3/9/2022	Analysis Date: 3/10/2022		SeqNo: 3047946		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.024	0.9497	0	88.8	68.8	120	7.78	20	
Toluene	0.88	0.047	0.9497	0	92.6	73.6	124	8.05	20	
Ethylbenzene	0.89	0.047	0.9497	0	94.1	72.7	129	10.4	20	
Xylenes, Total	2.7	0.095	2.849	0	93.7	75.7	126	9.56	20	
Surr: 4-Bromofluorobenzene	0.82		0.9497		86.1	70	130	0	0	

Sample ID: ics-66025	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 66025		RunNo: 86391							
Prep Date: 3/8/2022	Analysis Date: 3/10/2022		SeqNo: 3047952		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.88		1.000		88.1	70	130			

Sample ID: mb-66025	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 66025		RunNo: 86391							
Prep Date: 3/8/2022	Analysis Date: 3/10/2022		SeqNo: 3047953		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.88		1.000		87.7	70	130			

Sample ID: ics-66052	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 66052		RunNo: 86391							
Prep Date: 3/9/2022	Analysis Date: 3/10/2022		SeqNo: 3047997		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	0.88	0.050	1.000	0	88.0	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	88.9	80	120			

Qualifiers:

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

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

WO#: 2203356

21-Mar-22

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: ics-66052	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66052	RunNo: 86391								
Prep Date: 3/9/2022	Analysis Date: 3/10/2022	SeqNo: 3047997	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.89		1.000		89.1	70	130			

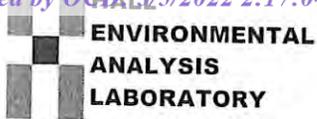
Sample ID: mb-66052	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66052	RunNo: 86391								
Prep Date: 3/9/2022	Analysis Date: 3/10/2022	SeqNo: 3047998	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		90.0	70	130			

Sample ID: mb-66034	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66034	RunNo: 86431								
Prep Date: 3/8/2022	Analysis Date: 3/11/2022	SeqNo: 3049237	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		96.1	70	130			

Sample ID: LCS-66034	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66034	RunNo: 86431								
Prep Date: 3/8/2022	Analysis Date: 3/11/2022	SeqNo: 3049238	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.4	80	120			
Toluene	0.91	0.050	1.000	0	90.8	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	91.7	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.4	70	130			

Qualifiers:

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



Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2203356

RcptNo: 1

Received By: Cheyenne Cason 3/5/2022 8:55:00 AM

Handwritten signature

Completed By: Cheyenne Cason 3/5/2022 9:42:20 AM

Handwritten signature

Reviewed By: *Cue* 3/5/22

Chain of Custody

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

Log In

- 3. Was an attempt made to cool the samples? Yes No NA
- 4. Were all samples received at a temperature of >0° 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? Yes No
- (Note discrepancies on chain of custody)
- 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? Yes No
- (If no, notify customer for authorization.)

of preserved bottles checked for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *KPG* 3/5/22

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: eMail Phone Fax In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Not Present			
2	0.7	Good	Not Present			
3	4.0	Good	Not Present			

Chain-of-Custody Record

Client: 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 5-10 days
 Project Name: Hawkins NE BA #2
 Project #: 11228980
 Project Manager:
 Becky Haskell
 Tom Larson
 Sampler: Zach Comino
 On Ice: Yes No
 # of Coolers: 3
 Cooler Temp (including CP): See Check off

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
030322	0800	S	SW-6	Jar		2203356
	0805		BH-15			001
	0810		BH-16			002
	0815		BH-17			003
	0900		BH-18			004
	0905		BH-19			005
	0910		BH-20			006
	0915		BH-21			007
	0920		BH-22			008
	1000		BH-23			009
	1005		BH-24			010
	1010		BH-25			011
						012

Date: 030322 Time: 0800 Relinquished by: Zach Comino
 Date: 030322 Time: 0800 Relinquished by: Zach Comino
 Date: 3/4/22 Time: 1910 Relinquished by: Zach Comino
 Received by: W. Larson Date: 3/4/22 Time: 900
 Received by: W. Larson Date: 3/4/22 Time: 900
 Via: Car Date: 3/4/22 Time: 0855



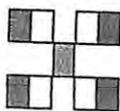
HALL ENVIRONMENTAL ANALYSIS LABORATORY
 www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

RTX / MTBE / TMB's (8021)	
TPH:8015D(GRO / DRG / MRG)	
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)	<u>11.9 300</u>

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

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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)	<i>Alleviate Well (3/21)</i>

Turn-Around Time: 5-dg

Standard Rush

Project Name: Hawkins BA #2

Project #: 11228980

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)

Project Manager: Becky Haskell

Sampler: Zach Comino

On Ice: Yes No

of Coolers: 3

Cooler Temp (including CP): See Checklis

Container Type and #	Preservative Type	HEAL No.
<u>Tear</u>		<u>2203356</u>
		<u>013</u>
		<u>014</u>
		<u>015</u>
		<u>016</u>
		<u>017</u>
		<u>018</u>
		<u>019</u>

Date	Time	Matrix	Sample Name
<u>030822</u>	<u>1100</u>	<u>S</u>	<u>BH-26</u>
	<u>1105</u>		<u>BH-27</u>
	<u>1110</u>		<u>BH-28</u>
	<u>1200</u>		<u>BH-21</u>
	<u>1205</u>		<u>BH-30</u>
	<u>1210</u>		<u>BH-31</u>
	<u>1215</u>		<u>Sw-7</u>

Received by: [Signature] Date: 3/4/22 Time: 0800

Received by: [Signature] Date: 3/5/22 Time: 0855

Relinquished by: [Signature] Date: 3/4/22 Time: 1900

Relinquished by: [Signature] Date: 3/5/22 Time: 0855

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

March 18, 2022

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

RE: Hornbaker BA 2

OrderNo.: 2203495

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 23 sample(s) on 3/9/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2203495**

Date Reported: **3/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-32

Project: Hornbaker BA 2

Collection Date: 3/4/2022 8:00:00 AM

Lab ID: 2203495-001

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2000	60		mg/Kg	20	3/15/2022 1:51:38 PM	66168
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/11/2022 12:36:36 PM	66078
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/11/2022 12:36:36 PM	66078
Surr: DNOP	90.1	51.1-141		%Rec	1	3/11/2022 12:36:36 PM	66078
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/11/2022 10:53:59 PM	66059
Surr: BFB	108	70-130		%Rec	1	3/11/2022 10:53:59 PM	66059
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/11/2022 10:53:59 PM	66059
Toluene	ND	0.049		mg/Kg	1	3/11/2022 10:53:59 PM	66059
Ethylbenzene	ND	0.049		mg/Kg	1	3/11/2022 10:53:59 PM	66059
Xylenes, Total	ND	0.098		mg/Kg	1	3/11/2022 10:53:59 PM	66059
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	3/11/2022 10:53:59 PM	66059

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

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

Analytical Report

Lab Order **2203495**

Date Reported: **3/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-8

Project: Hornbaker BA 2

Collection Date: 3/4/2022 8:05:00 AM

Lab ID: 2203495-002

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	280	60		mg/Kg	20	3/15/2022 2:53:23 PM	66168
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/11/2022 12:47:09 PM	66078
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2022 12:47:09 PM	66078
Surr: DNOP	66.9	51.1-141		%Rec	1	3/11/2022 12:47:09 PM	66078
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2022 12:04:19 AM	66059
Surr: BFB	105	70-130		%Rec	1	3/12/2022 12:04:19 AM	66059
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/12/2022 12:04:19 AM	66059
Toluene	ND	0.050		mg/Kg	1	3/12/2022 12:04:19 AM	66059
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2022 12:04:19 AM	66059
Xylenes, Total	ND	0.10		mg/Kg	1	3/12/2022 12:04:19 AM	66059
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	3/12/2022 12:04:19 AM	66059

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

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

Analytical Report

Lab Order **2203495**

Date Reported: **3/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-33

Project: Hornbaker BA 2

Collection Date: 3/4/2022 8:10:00 AM

Lab ID: 2203495-003

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	820	60		mg/Kg	20	3/15/2022 3:05:44 PM	66168
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/11/2022 12:57:42 PM	66078
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2022 12:57:42 PM	66078
Surr: DNOP	95.1	51.1-141		%Rec	1	3/11/2022 12:57:42 PM	66078
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2022 1:14:25 AM	66059
Surr: BFB	105	70-130		%Rec	1	3/12/2022 1:14:25 AM	66059
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/12/2022 1:14:25 AM	66059
Toluene	ND	0.050		mg/Kg	1	3/12/2022 1:14:25 AM	66059
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2022 1:14:25 AM	66059
Xylenes, Total	ND	0.099		mg/Kg	1	3/12/2022 1:14:25 AM	66059
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	3/12/2022 1:14:25 AM	66059

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

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

Analytical Report

Lab Order **2203495**

Date Reported: **3/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-34

Project: Hornbaker BA 2

Collection Date: 3/4/2022 8:15:00 AM

Lab ID: 2203495-004

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2200	60		mg/Kg	20	3/15/2022 3:18:05 PM	66168
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/11/2022 1:08:16 PM	66078
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/11/2022 1:08:16 PM	66078
Surr: DNOP	53.8	51.1-141		%Rec	1	3/11/2022 1:08:16 PM	66078
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/12/2022 1:37:44 AM	66059
Surr: BFB	102	70-130		%Rec	1	3/12/2022 1:37:44 AM	66059
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/12/2022 1:37:44 AM	66059
Toluene	ND	0.049		mg/Kg	1	3/12/2022 1:37:44 AM	66059
Ethylbenzene	ND	0.049		mg/Kg	1	3/12/2022 1:37:44 AM	66059
Xylenes, Total	ND	0.099		mg/Kg	1	3/12/2022 1:37:44 AM	66059
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	3/12/2022 1:37:44 AM	66059

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

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

Analytical Report

Lab Order **2203495**

Date Reported: **3/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-35

Project: Hornbaker BA 2

Collection Date: 3/4/2022 9:00:00 AM

Lab ID: 2203495-005

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	3100	150		mg/Kg	50	3/17/2022 12:12:16 AM	66168
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/11/2022 1:18:50 PM	66078
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/11/2022 1:18:50 PM	66078
Surr: DNOP	95.1	51.1-141		%Rec	1	3/11/2022 1:18:50 PM	66078
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2022 2:01:10 AM	66059
Surr: BFB	106	70-130		%Rec	1	3/12/2022 2:01:10 AM	66059
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/12/2022 2:01:10 AM	66059
Toluene	ND	0.050		mg/Kg	1	3/12/2022 2:01:10 AM	66059
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2022 2:01:10 AM	66059
Xylenes, Total	ND	0.099		mg/Kg	1	3/12/2022 2:01:10 AM	66059
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	3/12/2022 2:01:10 AM	66059

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

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

Analytical Report

Lab Order **2203495**

Date Reported: **3/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-36

Project: Hornbaker BA 2

Collection Date: 3/4/2022 9:05:00 AM

Lab ID: 2203495-006

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	2800	150		mg/Kg	50	3/17/2022 12:49:30 AM	66168
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/11/2022 1:29:36 PM	66078
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2022 1:29:36 PM	66078
Surr: DNOP	64.9	51.1-141		%Rec	1	3/11/2022 1:29:36 PM	66078
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/12/2022 3:34:27 AM	66059
Surr: BFB	105	70-130		%Rec	1	3/12/2022 3:34:27 AM	66059
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/12/2022 3:34:27 AM	66059
Toluene	ND	0.049		mg/Kg	1	3/12/2022 3:34:27 AM	66059
Ethylbenzene	ND	0.049		mg/Kg	1	3/12/2022 3:34:27 AM	66059
Xylenes, Total	ND	0.098		mg/Kg	1	3/12/2022 3:34:27 AM	66059
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	3/12/2022 3:34:27 AM	66059

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

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

Analytical Report

Lab Order **2203495**

Date Reported: **3/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-37

Project: Hornbaker BA 2

Collection Date: 3/4/2022 9:10:00 AM

Lab ID: 2203495-007

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	2400	150		mg/Kg	50	3/17/2022 1:01:55 AM	66168
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/11/2022 1:40:23 PM	66078
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/11/2022 1:40:23 PM	66078
Surr: DNOP	73.1	51.1-141		%Rec	1	3/11/2022 1:40:23 PM	66078
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2022 3:57:46 AM	66059
Surr: BFB	104	70-130		%Rec	1	3/12/2022 3:57:46 AM	66059
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/12/2022 3:57:46 AM	66059
Toluene	ND	0.050		mg/Kg	1	3/12/2022 3:57:46 AM	66059
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2022 3:57:46 AM	66059
Xylenes, Total	ND	0.099		mg/Kg	1	3/12/2022 3:57:46 AM	66059
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	3/12/2022 3:57:46 AM	66059

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

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

Analytical Report

Lab Order **2203495**

Date Reported: **3/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-38

Project: Hornbaker BA 2

Collection Date: 3/4/2022 9:15:00 AM

Lab ID: 2203495-008

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	2700	150		mg/Kg	50	3/17/2022 1:14:20 AM	66168
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/11/2022 1:50:58 PM	66078
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2022 1:50:58 PM	66078
Surr: DNOP	84.8	51.1-141		%Rec	1	3/11/2022 1:50:58 PM	66078
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/12/2022 4:21:07 AM	66059
Surr: BFB	103	70-130		%Rec	1	3/12/2022 4:21:07 AM	66059
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/12/2022 4:21:07 AM	66059
Toluene	ND	0.049		mg/Kg	1	3/12/2022 4:21:07 AM	66059
Ethylbenzene	ND	0.049		mg/Kg	1	3/12/2022 4:21:07 AM	66059
Xylenes, Total	ND	0.098		mg/Kg	1	3/12/2022 4:21:07 AM	66059
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	3/12/2022 4:21:07 AM	66059

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

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

Analytical Report

Lab Order **2203495**

Date Reported: **3/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-39

Project: Hornbaker BA 2

Collection Date: 3/4/2022 10:00:00 AM

Lab ID: 2203495-009

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	2400	150		mg/Kg	50	3/17/2022 1:26:44 AM	66168
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/11/2022 2:01:34 PM	66078
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/11/2022 2:01:34 PM	66078
Surr: DNOP	106	51.1-141		%Rec	1	3/11/2022 2:01:34 PM	66078
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2022 4:44:25 AM	66059
Surr: BFB	105	70-130		%Rec	1	3/12/2022 4:44:25 AM	66059
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/12/2022 4:44:25 AM	66059
Toluene	ND	0.050		mg/Kg	1	3/12/2022 4:44:25 AM	66059
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2022 4:44:25 AM	66059
Xylenes, Total	ND	0.099		mg/Kg	1	3/12/2022 4:44:25 AM	66059
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	3/12/2022 4:44:25 AM	66059

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

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

Analytical Report

Lab Order **2203495**

Date Reported: **3/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-40

Project: Hornbaker BA 2

Collection Date: 3/4/2022 10:05:00 AM

Lab ID: 2203495-010

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1900	60		mg/Kg	20	3/15/2022 4:56:51 PM	66168
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	3/11/2022 2:12:10 PM	66078
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/11/2022 2:12:10 PM	66078
Surr: DNOP	74.6	51.1-141		%Rec	1	3/11/2022 2:12:10 PM	66078
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/12/2022 5:07:41 AM	66059
Surr: BFB	106	70-130		%Rec	1	3/12/2022 5:07:41 AM	66059
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/12/2022 5:07:41 AM	66059
Toluene	ND	0.049		mg/Kg	1	3/12/2022 5:07:41 AM	66059
Ethylbenzene	ND	0.049		mg/Kg	1	3/12/2022 5:07:41 AM	66059
Xylenes, Total	ND	0.098		mg/Kg	1	3/12/2022 5:07:41 AM	66059
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	3/12/2022 5:07:41 AM	66059

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

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

Analytical Report

Lab Order **2203495**

Date Reported: **3/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-41

Project: Hornbaker BA 2

Collection Date: 3/4/2022 10:10:00 AM

Lab ID: 2203495-011

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1700	60		mg/Kg	20	3/15/2022 5:09:12 PM	66168
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/11/2022 2:33:26 PM	66078
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/11/2022 2:33:26 PM	66078
Surr: DNOP	101	51.1-141		%Rec	1	3/11/2022 2:33:26 PM	66078
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/12/2022 5:30:55 AM	66059
Surr: BFB	103	70-130		%Rec	1	3/12/2022 5:30:55 AM	66059
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/12/2022 5:30:55 AM	66059
Toluene	ND	0.049		mg/Kg	1	3/12/2022 5:30:55 AM	66059
Ethylbenzene	ND	0.049		mg/Kg	1	3/12/2022 5:30:55 AM	66059
Xylenes, Total	ND	0.099		mg/Kg	1	3/12/2022 5:30:55 AM	66059
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	3/12/2022 5:30:55 AM	66059

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

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

Analytical Report

Lab Order **2203495**

Date Reported: **3/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-42

Project: Hornbaker BA 2

Collection Date: 3/4/2022 10:15:00 AM

Lab ID: 2203495-012

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1900	60		mg/Kg	20	3/15/2022 5:21:32 PM	66168
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	10	10		mg/Kg	1	3/11/2022 2:44:08 PM	66078
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2022 2:44:08 PM	66078
Surr: DNOP	88.8	51.1-141		%Rec	1	3/11/2022 2:44:08 PM	66078
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/12/2022 5:54:12 AM	66059
Surr: BFB	99.7	70-130		%Rec	1	3/12/2022 5:54:12 AM	66059
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/12/2022 5:54:12 AM	66059
Toluene	ND	0.049		mg/Kg	1	3/12/2022 5:54:12 AM	66059
Ethylbenzene	ND	0.049		mg/Kg	1	3/12/2022 5:54:12 AM	66059
Xylenes, Total	ND	0.098		mg/Kg	1	3/12/2022 5:54:12 AM	66059
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	3/12/2022 5:54:12 AM	66059

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

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

Analytical Report

Lab Order **2203495**

Date Reported: **3/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-43

Project: Hornbaker BA 2

Collection Date: 3/4/2022 11:00:00 AM

Lab ID: 2203495-013

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	150	61		mg/Kg	20	3/15/2022 5:33:53 PM	66168
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/11/2022 2:54:50 PM	66078
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2022 2:54:50 PM	66078
Surr: DNOP	79.9	51.1-141		%Rec	1	3/11/2022 2:54:50 PM	66078
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/12/2022 6:17:39 AM	66059
Surr: BFB	104	70-130		%Rec	1	3/12/2022 6:17:39 AM	66059
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/12/2022 6:17:39 AM	66059
Toluene	ND	0.048		mg/Kg	1	3/12/2022 6:17:39 AM	66059
Ethylbenzene	ND	0.048		mg/Kg	1	3/12/2022 6:17:39 AM	66059
Xylenes, Total	ND	0.095		mg/Kg	1	3/12/2022 6:17:39 AM	66059
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	3/12/2022 6:17:39 AM	66059

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

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

Analytical Report

Lab Order **2203495**

Date Reported: **3/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-44

Project: Hornbaker BA 2

Collection Date: 3/4/2022 11:05:00 AM

Lab ID: 2203495-014

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	370	60		mg/Kg	20	3/15/2022 5:46:13 PM	66168
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/11/2022 3:05:43 PM	66078
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2022 3:05:43 PM	66078
Surr: DNOP	86.0	51.1-141		%Rec	1	3/11/2022 3:05:43 PM	66078
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/12/2022 6:40:56 AM	66059
Surr: BFB	101	70-130		%Rec	1	3/12/2022 6:40:56 AM	66059
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/12/2022 6:40:56 AM	66059
Toluene	ND	0.049		mg/Kg	1	3/12/2022 6:40:56 AM	66059
Ethylbenzene	ND	0.049		mg/Kg	1	3/12/2022 6:40:56 AM	66059
Xylenes, Total	ND	0.098		mg/Kg	1	3/12/2022 6:40:56 AM	66059
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	3/12/2022 6:40:56 AM	66059

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

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

Analytical Report

Lab Order **2203495**

Date Reported: **3/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-45

Project: Hornbaker BA 2

Collection Date: 3/4/2022 11:10:00 AM

Lab ID: 2203495-015

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	2300	150		mg/Kg	50	3/17/2022 1:39:10 AM	66168
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/11/2022 3:16:35 PM	66078
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2022 3:16:35 PM	66078
Surr: DNOP	82.9	51.1-141		%Rec	1	3/11/2022 3:16:35 PM	66078
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/12/2022 7:04:11 AM	66059
Surr: BFB	105	70-130		%Rec	1	3/12/2022 7:04:11 AM	66059
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/12/2022 7:04:11 AM	66059
Toluene	ND	0.048		mg/Kg	1	3/12/2022 7:04:11 AM	66059
Ethylbenzene	ND	0.048		mg/Kg	1	3/12/2022 7:04:11 AM	66059
Xylenes, Total	ND	0.097		mg/Kg	1	3/12/2022 7:04:11 AM	66059
Surr: 4-Bromofluorobenzene	94.8	70-130		%Rec	1	3/12/2022 7:04:11 AM	66059

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

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

Analytical Report

Lab Order **2203495**

Date Reported: **3/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-46

Project: Hornbaker BA 2

Collection Date: 3/4/2022 11:15:00 AM

Lab ID: 2203495-016

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	3/15/2022 6:10:54 PM	66168
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/11/2022 3:27:25 PM	66078
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/11/2022 3:27:25 PM	66078
Surr: DNOP	98.8	51.1-141		%Rec	1	3/11/2022 3:27:25 PM	66078
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/12/2022 8:14:10 AM	66059
Surr: BFB	103	70-130		%Rec	1	3/12/2022 8:14:10 AM	66059
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	3/12/2022 8:14:10 AM	66059
Toluene	ND	0.047		mg/Kg	1	3/12/2022 8:14:10 AM	66059
Ethylbenzene	ND	0.047		mg/Kg	1	3/12/2022 8:14:10 AM	66059
Xylenes, Total	ND	0.093		mg/Kg	1	3/12/2022 8:14:10 AM	66059
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	3/12/2022 8:14:10 AM	66059

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

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

Analytical Report

Lab Order **2203495**

Date Reported: **3/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-9

Project: Hornbaker BA 2

Collection Date: 3/4/2022 11:20:00 AM

Lab ID: 2203495-017

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	160	61		mg/Kg	20	3/15/2022 6:23:15 PM	66168
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/11/2022 3:38:17 PM	66078
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2022 3:38:17 PM	66078
Surr: DNOP	95.3	51.1-141		%Rec	1	3/11/2022 3:38:17 PM	66078
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/12/2022 8:37:26 AM	66059
Surr: BFB	107	70-130		%Rec	1	3/12/2022 8:37:26 AM	66059
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/12/2022 8:37:26 AM	66059
Toluene	ND	0.049		mg/Kg	1	3/12/2022 8:37:26 AM	66059
Ethylbenzene	ND	0.049		mg/Kg	1	3/12/2022 8:37:26 AM	66059
Xylenes, Total	ND	0.098		mg/Kg	1	3/12/2022 8:37:26 AM	66059
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	3/12/2022 8:37:26 AM	66059

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

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

Analytical Report

Lab Order **2203495**

Date Reported: **3/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-47

Project: Hornbaker BA 2

Collection Date: 3/4/2022 11:25:00 AM

Lab ID: 2203495-018

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1000	60		mg/Kg	20	3/15/2022 6:35:37 PM	66168
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/11/2022 7:31:00 PM	66079
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/11/2022 7:31:00 PM	66079
Surr: DNOP	108	51.1-141		%Rec	1	3/11/2022 7:31:00 PM	66079
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/12/2022 9:00:44 AM	66059
Surr: BFB	103	70-130		%Rec	1	3/12/2022 9:00:44 AM	66059
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/12/2022 9:00:44 AM	66059
Toluene	ND	0.049		mg/Kg	1	3/12/2022 9:00:44 AM	66059
Ethylbenzene	ND	0.049		mg/Kg	1	3/12/2022 9:00:44 AM	66059
Xylenes, Total	ND	0.097		mg/Kg	1	3/12/2022 9:00:44 AM	66059
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	3/12/2022 9:00:44 AM	66059

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

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

Analytical Report

Lab Order **2203495**

Date Reported: **3/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-48

Project: Hornbaker BA 2

Collection Date: 3/4/2022 11:30:00 AM

Lab ID: 2203495-019

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	2000	60		mg/Kg	20	3/15/2022 12:36:29 PM	66175
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	40	9.8		mg/Kg	1	3/11/2022 8:02:30 PM	66079
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/11/2022 8:02:30 PM	66079
Surr: DNOP	62.2	51.1-141		%Rec	1	3/11/2022 8:02:30 PM	66079
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/12/2022 9:24:02 AM	66059
Surr: BFB	103	70-130		%Rec	1	3/12/2022 9:24:02 AM	66059
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/12/2022 9:24:02 AM	66059
Toluene	ND	0.049		mg/Kg	1	3/12/2022 9:24:02 AM	66059
Ethylbenzene	ND	0.049		mg/Kg	1	3/12/2022 9:24:02 AM	66059
Xylenes, Total	ND	0.098		mg/Kg	1	3/12/2022 9:24:02 AM	66059
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	3/12/2022 9:24:02 AM	66059

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

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

Analytical Report

Lab Order **2203495**

Date Reported: **3/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-49

Project: Hornbaker BA 2

Collection Date: 3/4/2022 11:35:00 AM

Lab ID: 2203495-020

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	2300	60		mg/Kg	20	3/15/2022 6:47:57 PM	66168
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/11/2022 8:13:02 PM	66079
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/11/2022 8:13:02 PM	66079
Surr: DNOP	94.4	51.1-141		%Rec	1	3/11/2022 8:13:02 PM	66079
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2022 9:47:20 AM	66059
Surr: BFB	104	70-130		%Rec	1	3/12/2022 9:47:20 AM	66059
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/12/2022 9:47:20 AM	66059
Toluene	ND	0.050		mg/Kg	1	3/12/2022 9:47:20 AM	66059
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2022 9:47:20 AM	66059
Xylenes, Total	ND	0.10		mg/Kg	1	3/12/2022 9:47:20 AM	66059
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	3/12/2022 9:47:20 AM	66059

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

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

Analytical Report

Lab Order **2203495**

Date Reported: **3/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-50

Project: Hornbaker BA 2

Collection Date: 3/4/2022 11:40:00 AM

Lab ID: 2203495-021

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1100	60		mg/Kg	20	3/15/2022 7:25:01 PM	66168
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/11/2022 8:23:33 PM	66079
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/11/2022 8:23:33 PM	66079
Surr: DNOP	87.9	51.1-141		%Rec	1	3/11/2022 8:23:33 PM	66079
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/12/2022 10:57:31 AM	66061
Surr: BFB	105	70-130		%Rec	1	3/12/2022 10:57:31 AM	66061
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/12/2022 10:57:31 AM	66061
Toluene	ND	0.049		mg/Kg	1	3/12/2022 10:57:31 AM	66061
Ethylbenzene	ND	0.049		mg/Kg	1	3/12/2022 10:57:31 AM	66061
Xylenes, Total	ND	0.099		mg/Kg	1	3/12/2022 10:57:31 AM	66061
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	3/12/2022 10:57:31 AM	66061

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

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

Analytical Report

Lab Order **2203495**

Date Reported: **3/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-10

Project: Hornbaker BA 2

Collection Date: 3/7/2022 3:00:00 PM

Lab ID: 2203495-022

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	220	60		mg/Kg	20	3/15/2022 12:48:53 PM	66175
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/11/2022 8:34:07 PM	66079
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/11/2022 8:34:07 PM	66079
Surr: DNOP	110	51.1-141		%Rec	1	3/11/2022 8:34:07 PM	66079
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/12/2022 12:08:17 PM	66061
Surr: BFB	107	70-130		%Rec	1	3/12/2022 12:08:17 PM	66061
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/12/2022 12:08:17 PM	66061
Toluene	ND	0.049		mg/Kg	1	3/12/2022 12:08:17 PM	66061
Ethylbenzene	ND	0.049		mg/Kg	1	3/12/2022 12:08:17 PM	66061
Xylenes, Total	ND	0.097		mg/Kg	1	3/12/2022 12:08:17 PM	66061
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	3/12/2022 12:08:17 PM	66061

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

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

Analytical Report

Lab Order **2203495**

Date Reported: **3/18/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-11

Project: Hornbaker BA 2

Collection Date: 3/7/2022 3:05:00 PM

Lab ID: 2203495-023

Matrix: SOIL

Received Date: 3/9/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	450	60		mg/Kg	20	3/15/2022 1:50:54 PM	66175
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/11/2022 8:44:40 PM	66079
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/11/2022 8:44:40 PM	66079
Surr: DNOP	103	51.1-141		%Rec	1	3/11/2022 8:44:40 PM	66079
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/12/2022 1:19:22 PM	66061
Surr: BFB	107	70-130		%Rec	1	3/12/2022 1:19:22 PM	66061
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/12/2022 1:19:22 PM	66061
Toluene	ND	0.048		mg/Kg	1	3/12/2022 1:19:22 PM	66061
Ethylbenzene	ND	0.048		mg/Kg	1	3/12/2022 1:19:22 PM	66061
Xylenes, Total	ND	0.097		mg/Kg	1	3/12/2022 1:19:22 PM	66061
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	3/12/2022 1:19:22 PM	66061

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203495

18-Mar-22

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: MB-66168	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66168	RunNo: 86480								
Prep Date: 3/14/2022	Analysis Date: 3/15/2022	SeqNo: 3052030	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66168	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66168	RunNo: 86480								
Prep Date: 3/14/2022	Analysis Date: 3/15/2022	SeqNo: 3052031	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.2	90	110			

Sample ID: MB-66175	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66175	RunNo: 86472								
Prep Date: 3/15/2022	Analysis Date: 3/15/2022	SeqNo: 3052388	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66175	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66175	RunNo: 86472								
Prep Date: 3/15/2022	Analysis Date: 3/15/2022	SeqNo: 3052390	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.6	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203495

18-Mar-22

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: LCS-66078	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66078	RunNo: 86412								
Prep Date: 3/10/2022	Analysis Date: 3/11/2022	SeqNo: 3048356	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.9	68.9	135			
Surr: DNOP	5.0		5.000		101	51.1	141			

Sample ID: MB-66079	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66079	RunNo: 86415								
Prep Date: 3/10/2022	Analysis Date: 3/11/2022	SeqNo: 3048560	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	51.1	141			

Sample ID: LCS-66079	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66079	RunNo: 86415								
Prep Date: 3/10/2022	Analysis Date: 3/11/2022	SeqNo: 3048562	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	4.8		5.000		95.6	51.1	141			

Sample ID: MB-66078	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66078	RunNo: 86400								
Prep Date: 3/10/2022	Analysis Date: 3/11/2022	SeqNo: 3048585	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		99.4	51.1	141			

Sample ID: 2203495-018AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-47	Batch ID: 66079	RunNo: 86412								
Prep Date: 3/10/2022	Analysis Date: 3/11/2022	SeqNo: 3049360	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	64	10	49.95	8.824	111	36.1	154			
Surr: DNOP	5.1		4.995		103	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203495

18-Mar-22

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: 2203495-018AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH-47	Batch ID: 66079	RunNo: 86412								
Prep Date: 3/10/2022	Analysis Date: 3/11/2022	SeqNo: 3049361			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	9.7	48.69	8.824	89.0	36.1	154	20.9	33.9	
Surr: DNOP	5.0		4.869		102	51.1	141	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203495

18-Mar-22

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: mb-66059	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 66059	RunNo: 86431								
Prep Date: 3/9/2022	Analysis Date: 3/12/2022	SeqNo: 3049176	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: ics-66059	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 66059	RunNo: 86431								
Prep Date: 3/9/2022	Analysis Date: 3/11/2022	SeqNo: 3049177	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	78.6	131			
Surr: BFB	2200		1000		219	70	130			S

Sample ID: 2203495-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-32	Batch ID: 66059	RunNo: 86431								
Prep Date: 3/9/2022	Analysis Date: 3/11/2022	SeqNo: 3049179	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.9	24.39	0	113	70	130			
Surr: BFB	2300		975.6		234	70	130			S

Sample ID: 2203495-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-32	Batch ID: 66059	RunNo: 86431								
Prep Date: 3/9/2022	Analysis Date: 3/11/2022	SeqNo: 3049180	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.8	24.22	0	111	70	130	2.36	20	
Surr: BFB	2200		969.0		231	70	130	0	0	S

Sample ID: mb-66061	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 66061	RunNo: 86431								
Prep Date: 3/9/2022	Analysis Date: 3/12/2022	SeqNo: 3049200	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	70	130			

Sample ID: ics-66061	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 66061	RunNo: 86431								
Prep Date: 3/9/2022	Analysis Date: 3/12/2022	SeqNo: 3049201	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203495

18-Mar-22

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: Ics-66061	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 66061		RunNo: 86431							
Prep Date: 3/9/2022	Analysis Date: 3/12/2022		SeqNo: 3049201		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.3	78.6	131			
Surr: BFB	2100		1000		214	70	130			S

Sample ID: 2203495-021ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH-50	Batch ID: 66061		RunNo: 86431							
Prep Date: 3/9/2022	Analysis Date: 3/12/2022		SeqNo: 3049203		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.9	24.73	0	111	70	130			
Surr: BFB	2300		989.1		230	70	130			S

Sample ID: 2203495-021amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH-50	Batch ID: 66061		RunNo: 86431							
Prep Date: 3/9/2022	Analysis Date: 3/12/2022		SeqNo: 3049204		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.53	0	106	70	130	6.09	20	
Surr: BFB	2100		981.4		218	70	130	0	0	S

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203495

18-Mar-22

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: mb-66059	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66059	RunNo: 86431								
Prep Date: 3/9/2022	Analysis Date: 3/12/2022	SeqNo: 3049261	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.9	70	130			

Sample ID: LCS-66059	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66059	RunNo: 86431								
Prep Date: 3/9/2022	Analysis Date: 3/11/2022	SeqNo: 3049262	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	86.5	80	120			
Toluene	0.92	0.050	1.000	0	91.9	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	70	130			

Sample ID: 2203495-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SW-8	Batch ID: 66059	RunNo: 86431								
Prep Date: 3/9/2022	Analysis Date: 3/12/2022	SeqNo: 3049265	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	0.9833	0	88.8	68.8	120			
Toluene	0.95	0.049	0.9833	0	96.3	73.6	124			
Ethylbenzene	0.96	0.049	0.9833	0	97.6	72.7	129			
Xylenes, Total	2.9	0.098	2.950	0	98.5	75.7	126			
Surr: 4-Bromofluorobenzene	0.98		0.9833		99.2	70	130			

Sample ID: 2203495-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SW-8	Batch ID: 66059	RunNo: 86431								
Prep Date: 3/9/2022	Analysis Date: 3/12/2022	SeqNo: 3049266	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.025	0.9852	0	81.6	68.8	120	8.30	20	
Toluene	0.87	0.049	0.9852	0	88.7	73.6	124	8.00	20	
Ethylbenzene	0.89	0.049	0.9852	0	90.0	72.7	129	7.83	20	
Xylenes, Total	2.7	0.099	2.956	0	90.7	75.7	126	8.07	20	
Surr: 4-Bromofluorobenzene	0.98		0.9852		99.2	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203495

18-Mar-22

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: mb-66061	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66061	RunNo: 86431								
Prep Date: 3/9/2022	Analysis Date: 3/12/2022	SeqNo: 3049285	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.2	70	130			

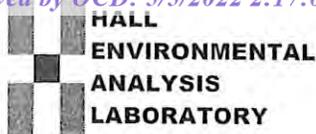
Sample ID: LCS-66061	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66061	RunNo: 86431								
Prep Date: 3/9/2022	Analysis Date: 3/12/2022	SeqNo: 3049286	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	87.4	80	120			
Toluene	0.94	0.050	1.000	0	93.6	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.4	80	120			
Surr: 4-Bromofluorobenzene	0.98		1.000		97.8	70	130			

Sample ID: 2203495-022ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: SW-10	Batch ID: 66061	RunNo: 86431								
Prep Date: 3/9/2022	Analysis Date: 3/12/2022	SeqNo: 3049289	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9785	0	89.5	68.8	120			
Toluene	0.94	0.049	0.9785	0	96.2	73.6	124			
Ethylbenzene	0.97	0.049	0.9785	0	99.4	72.7	129			
Xylenes, Total	2.9	0.098	2.935	0	99.7	75.7	126			
Surr: 4-Bromofluorobenzene	1.0		0.9785		102	70	130			

Sample ID: 2203495-022amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: SW-10	Batch ID: 66061	RunNo: 86431								
Prep Date: 3/9/2022	Analysis Date: 3/12/2022	SeqNo: 3049290	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.024	0.9718	0	84.2	68.8	120	6.80	20	
Toluene	0.87	0.049	0.9718	0	89.9	73.6	124	7.53	20	
Ethylbenzene	0.90	0.049	0.9718	0	92.7	72.7	129	7.63	20	
Xylenes, Total	2.7	0.097	2.915	0	92.6	75.7	126	8.01	20	
Surr: 4-Bromofluorobenzene	1.0		0.9718		102	70	130	0	0	

Qualifiers:

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



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: 2203495 RcptNo: 1

Received By: Sean Livingston 3/9/2022 8:00:00 AM

Signature of Sean Livingston

Completed By: Sean Livingston 3/9/2022 8:22:02 AM

Signature of Sean Livingston

Reviewed By: [Signature] 3/9/22

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: JM 3/9/22

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Rows 1 and 2.

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-Days

Project Name:

Humboldt BA #2

Project #:

11228280

Project Manager:

Becky Haskell
Tom Larson

Sampler: Zach Comino

On Ice: Yes No

of Coolers: 2

Cooler Temp (including CF): 0.5 to -0.5

Container Type and #
Jar

Preservative Type

HEAL No.
2.9 to -2.9

Date	Time	Matrix	Sample Name
05/04/22	1100	S	BH-43
	1105		BH-44
	1110		BH-45
	1115		BH-46
	1120		SLW-9
	1125		BH-47
	1130		BH-48
	1135		BH-49
	1140		BH-50

Date: 05/04/22

Time: 0800

Date: 5/4/22

Time: 1900

Relinquished by: Zach Comino

Relinquished by: Becky Haskell

Received by: See Comino

Via: Car

Date: 3/8/22

Time: 900

Date: 3/9/22

Time: 8:00

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTEX / MTBE / TMBs (8021)	
PH:8015(D/GRO/DRO/MRO)	
8081 Pesticides/8082 PCBs	
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)	<u>Chloride Milled 300</u>

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

March 21, 2022

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

RE: Hornbaker BA 2

OrderNo.: 2203568

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/10/2022 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2203568**

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-51

Project: Hornbaker BA 2

Collection Date: 3/8/2022 8:00:00 AM

Lab ID: 2203568-001

Matrix: SOIL

Received Date: 3/10/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	2400	150		mg/Kg	50	3/16/2022 11:47:26 PM	66186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	36	9.1		mg/Kg	1	3/14/2022 9:09:15 AM	66116
Motor Oil Range Organics (MRO)	62	46		mg/Kg	1	3/14/2022 9:09:15 AM	66116
Surr: DNOP	87.0	51.1-141		%Rec	1	3/14/2022 9:09:15 AM	66116
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/13/2022 8:53:00 AM	66096
Surr: BFB	107	70-130		%Rec	1	3/13/2022 8:53:00 AM	66096
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/13/2022 8:53:00 AM	66096
Toluene	ND	0.049		mg/Kg	1	3/13/2022 8:53:00 AM	66096
Ethylbenzene	ND	0.049		mg/Kg	1	3/13/2022 8:53:00 AM	66096
Xylenes, Total	ND	0.099		mg/Kg	1	3/13/2022 8:53:00 AM	66096
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	1	3/13/2022 8:53:00 AM	66096

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

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

Analytical Report

Lab Order 2203568

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-52

Project: Hornbaker BA 2

Collection Date: 3/8/2022 8:05:00 AM

Lab ID: 2203568-002

Matrix: SOIL

Received Date: 3/10/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1500	60		mg/Kg	20	3/16/2022 12:23:36 AM	66186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	16	9.3		mg/Kg	1	3/14/2022 9:19:48 AM	66116
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/14/2022 9:19:48 AM	66116
Surr: DNOP	88.2	51.1-141		%Rec	1	3/14/2022 9:19:48 AM	66116
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/14/2022 7:57:12 AM	66098
Surr: BFB	104	70-130		%Rec	1	3/14/2022 7:57:12 AM	66098
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/14/2022 7:57:12 AM	66098
Toluene	ND	0.050		mg/Kg	1	3/14/2022 7:57:12 AM	66098
Ethylbenzene	ND	0.050		mg/Kg	1	3/14/2022 7:57:12 AM	66098
Xylenes, Total	ND	0.10		mg/Kg	1	3/14/2022 7:57:12 AM	66098
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	3/14/2022 7:57:12 AM	66098

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

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

Analytical Report

Lab Order 2203568

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-53

Project: Hornbaker BA 2

Collection Date: 3/8/2022 8:10:00 AM

Lab ID: 2203568-003

Matrix: SOIL

Received Date: 3/10/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	2000	60		mg/Kg	20	3/16/2022 12:36:01 AM	66186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/14/2022 6:24:23 PM	66116
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/14/2022 6:24:23 PM	66116
Surr: DNOP	82.7	51.1-141		%Rec	1	3/14/2022 6:24:23 PM	66116
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/14/2022 9:07:31 AM	66098
Surr: BFB	105	70-130		%Rec	1	3/14/2022 9:07:31 AM	66098
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	3/14/2022 9:07:31 AM	66098
Toluene	ND	0.049		mg/Kg	1	3/14/2022 9:07:31 AM	66098
Ethylbenzene	ND	0.049		mg/Kg	1	3/14/2022 9:07:31 AM	66098
Xylenes, Total	ND	0.097		mg/Kg	1	3/14/2022 9:07:31 AM	66098
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	3/14/2022 9:07:31 AM	66098

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

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

Analytical Report

Lab Order 2203568

Date Reported: 3/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-54

Project: Hornbaker BA 2

Collection Date: 3/8/2022 8:15:00 AM

Lab ID: 2203568-004

Matrix: SOIL

Received Date: 3/10/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	1900	61		mg/Kg	20	3/16/2022 12:48:26 AM	66186
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/14/2022 6:35:14 PM	66116
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/14/2022 6:35:14 PM	66116
Surr: DNOP	87.7	51.1-141		%Rec	1	3/14/2022 6:35:14 PM	66116
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/14/2022 10:18:03 AM	66098
Surr: BFB	102	70-130		%Rec	1	3/14/2022 10:18:03 AM	66098
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	3/14/2022 10:18:03 AM	66098
Toluene	ND	0.049		mg/Kg	1	3/14/2022 10:18:03 AM	66098
Ethylbenzene	ND	0.049		mg/Kg	1	3/14/2022 10:18:03 AM	66098
Xylenes, Total	ND	0.098		mg/Kg	1	3/14/2022 10:18:03 AM	66098
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	3/14/2022 10:18:03 AM	66098

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203568

21-Mar-22

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: MB-66186	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66186	RunNo: 86503								
Prep Date: 3/15/2022	Analysis Date: 3/15/2022	SeqNo: 3052498	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66186	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66186	RunNo: 86503								
Prep Date: 3/15/2022	Analysis Date: 3/15/2022	SeqNo: 3052499	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203568

21-Mar-22

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: MB-66116	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66116	RunNo: 86439								
Prep Date: 3/11/2022	Analysis Date: 3/14/2022	SeqNo: 3050132	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	51.1	141			

Sample ID: MB-66117	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66117	RunNo: 86439								
Prep Date: 3/11/2022	Analysis Date: 3/14/2022	SeqNo: 3050133	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.4		10.00		93.5	51.1	141			

Sample ID: LCS-66116	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66116	RunNo: 86439								
Prep Date: 3/11/2022	Analysis Date: 3/14/2022	SeqNo: 3050134	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.1	68.9	135			
Surr: DNOP	4.3		5.000		85.7	51.1	141			

Sample ID: LCS-66117	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66117	RunNo: 86439								
Prep Date: 3/11/2022	Analysis Date: 3/14/2022	SeqNo: 3050135	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.0		5.000		121	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203568

21-Mar-22

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: ics-66096	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 66096		RunNo: 86449							
Prep Date: 3/10/2022	Analysis Date: 3/12/2022		SeqNo: 3050047		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	119	78.6	131			
Surr: BFB	2400		1000		238	70	130			S

Sample ID: mb-66096	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 66096		RunNo: 86449							
Prep Date: 3/10/2022	Analysis Date: 3/12/2022		SeqNo: 3050048		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		101	70	130			

Sample ID: mb-66098	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 66098		RunNo: 86458							
Prep Date: 3/10/2022	Analysis Date: 3/14/2022		SeqNo: 3050287		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		106	70	130			

Sample ID: ics-66098	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 66098		RunNo: 86458							
Prep Date: 3/10/2022	Analysis Date: 3/14/2022		SeqNo: 3050288		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	78.6	131			
Surr: BFB	2200		1000		223	70	130			S

Sample ID: 2203568-002ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH-52	Batch ID: 66098		RunNo: 86458							
Prep Date: 3/10/2022	Analysis Date: 3/14/2022		SeqNo: 3050290		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.9	24.63	0	109	70	130			
Surr: BFB	2200		985.2		226	70	130			S

Sample ID: 2203568-002amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH-52	Batch ID: 66098		RunNo: 86458							
Prep Date: 3/10/2022	Analysis Date: 3/14/2022		SeqNo: 3050291		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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203568

21-Mar-22

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: 2203568-002amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH-52	Batch ID: 66098	RunNo: 86458								
Prep Date: 3/10/2022	Analysis Date: 3/14/2022	SeqNo: 3050291			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.49	0	101	70	130	8.28	20	
Surr: BFB	2100		979.4		217	70	130	0	0	S

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203568

21-Mar-22

Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: ics-66096	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 66096		RunNo: 86449							
Prep Date: 3/10/2022	Analysis Date: 3/12/2022		SeqNo: 3050103		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	0.95	0.050	1.000	0	95.1	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.7	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.4	70	130			

Sample ID: mb-66096	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 66096		RunNo: 86449							
Prep Date: 3/10/2022	Analysis Date: 3/12/2022		SeqNo: 3050104		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		87.2	70	130			

Sample ID: mb-66098	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 66098		RunNo: 86458							
Prep Date: 3/10/2022	Analysis Date: 3/14/2022		SeqNo: 3050351		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.1	70	130			

Sample ID: LCS-66098	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 66098		RunNo: 86458							
Prep Date: 3/10/2022	Analysis Date: 3/14/2022		SeqNo: 3050359		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.8	80	120			
Toluene	0.94	0.050	1.000	0	93.9	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.3	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203568

21-Mar-22

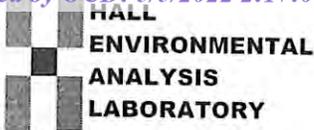
Client: GHD Midland
Project: Hornbaker BA 2

Sample ID: 2203568-003ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-53	Batch ID: 66098	RunNo: 86458								
Prep Date: 3/10/2022	Analysis Date: 3/14/2022	SeqNo: 3050364	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.024	0.9690	0	88.2	68.8	120			
Toluene	0.92	0.048	0.9690	0	94.7	73.6	124			
Ethylbenzene	0.94	0.048	0.9690	0	97.3	72.7	129			
Xylenes, Total	2.8	0.097	2.907	0	97.9	75.7	126			
Surr: 4-Bromofluorobenzene	0.98		0.9690		101	70	130			

Sample ID: 2203568-003amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH-53	Batch ID: 66098	RunNo: 86458								
Prep Date: 3/10/2022	Analysis Date: 3/14/2022	SeqNo: 3050365	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.77	0.024	0.9690	0	79.5	68.8	120	10.3	20	
Toluene	0.83	0.048	0.9690	0	85.3	73.6	124	10.4	20	
Ethylbenzene	0.84	0.048	0.9690	0	86.8	72.7	129	11.4	20	
Xylenes, Total	2.5	0.097	2.907	0	87.0	75.7	126	11.8	20	
Surr: 4-Bromofluorobenzene	0.96		0.9690		98.9	70	130	0	0	

Qualifiers:

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



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

Sample Log-In Check List

Client Name: GHD Midland Work Order Number: 2203568 RcptNo: 1

Received By: Sean Livingston 3/10/2022 8:00:00 AM
Completed By: Sean Livingston 3/10/2022 8:24:23 AM
Reviewed By: [Signature] 3/10/22

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: jn 3/10/22

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 6 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 1.2, Good, [], [], []

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 104665

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 104665
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	5/24/2022