

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	nAPP2112353281
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377
Contact Name Chase Settle	Contact Telephone 575-748-1471
Contact email Chase_Settle@eogresources.com	Incident # (assigned by OCD) nAPP2112353281
Contact mailing address 104 S. 4th Street, Artesia, NM 88210	

### Location of Release Source

Latitude 32.86529 Longitude -103.92736  
*(NAD 83 in decimal degrees to 5 decimal places)*

Site Name Jackson B #33	Site Type Oil Well
Date Release Discovered 04/19/2021	API# (if applicable) 30-015-23807

Unit Letter	Section	Township	Range	County
F	1	17S	30E	Eddy

Surface Owner:  State  Federal  Tribal  Private (Name: \_\_\_\_\_)

### 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 Unknown historical release, no known volume or date. During P&A activities, stained soil was discovered on the well pad.

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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 &amp; Environmental Sr</u> Signature: <u></u> Date: <u>05/03/2021</u> email: <u>Chase_Settle@eogresources.com</u> Telephone: <u>575-748-1471</u>
<b><u>OCD Only</u></b>  Received by: _____ Date: _____

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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 <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" 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.

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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:  Date: 08/31/2021  
 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:  Date: 08/31/2021  
 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: \_\_\_\_\_ Date: \_\_\_\_\_

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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: 03/29/2022  
 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: 04/18/2022  
 Printed Name: Jennifer Nobui Title: Environmental Specialist A

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

Our ref: 11228405

March 28, 2022

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

Re: **Site Characterization and Closure Report  
Jackson B #33 Release Site  
EOG Resources Inc.  
Incident ID: nAPP2112353281  
F-01-17S-30E, Eddy County, New Mexico**

To Whom It May Concern:

## 1. Introduction

GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG), submits this Site Characterization and Closure Report to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of delineation, sampling, analyses, and remedial activities in the affected area at the EOG Jackson B #33 Release Site (Site). The Site is located in Unit Letter F Section 01 of Township 17 South and Range 30 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.86529 N latitude and 103.92736 W longitude. The release occurred on land managed by the Bureau of Land Management (BLM). Figure 1 depicts the Site location. The EOG production facility and other site details are depicted on Figure 2.

## 2. Background Information

A C-141 initial report for this release was submitted to the NMOCD on May 3, 2021. The C-141 stated that no known volume or date could be assigned to this historical release. The potential release area was discovered during EOG well plugging and site abandonment activities associated with this location. Soils within the former oil well appeared to be discolored and after discussions between field personnel and environmental staff, EOG made the decision to go ahead and file a C-141 for this suspect release location.

A Site Characterization and Remediation Work Plan dated August 27, 2021 was submitted to the NMOCD for approval. The work plan was approved by the NMOCD on January 20, 2022. The Release Notification, Site Assessment/Characterization, Remediation Plan, Closure portions of Form C-141 for Incident Number nAPP2112353281 are attached to the front of this report.

### 3. Groundwater and Site Characterization

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

On May 18, 2021, Talon LPE (Talon) installed a temporary well, Jackson B #59, at the following GPS Coordinates, 32.85697 N latitude and 103.92703 W longitude to approximately 125 feet below ground surface (bgs.) which is located one half a mile from the Site. The Jackson B #59 Temp Well was left open for 72 hours and a water level meter was utilized to determine the presence or absence of groundwater. No groundwater was detected, and the temporary well was plugged and abandoned. Depth to groundwater for this Site is greater than one hundred (100) feet bgs. No other receptors (karst potential areas, water wells, playas, wetlands, waterways, lakebeds or ordinance boundaries) were located within each specific boundaries or distance from the Site. According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i) the Site is located within an area with depth to groundwater greater than one hundred (100) feet and meets the closure criteria for depth to groundwater greater than one hundred (100) feet in Table I in NMAC 19.15.29.12. The Site characterization documentation (Talon’s Temporary Well Log, Karst Potential, FEMA, Points of Diversion and Wetlands maps) are provided in Attachment A. The soil and closure criteria are listed below:

**General Site Characterization and Groundwater:**

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

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

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

### 4. Initial Soil Delineation Assessment Summary and Findings

On May 3, 2021, GHD Services Inc. (GHD), on behalf of EOG, installed four (4) hand borings within the suspected impacted area. Soil samples were collected at two (2) and four (4) feet bgs. All soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, total petroleum hydrocarbons (TPH) by Method 8015B Modified, and chloride by EPA Method 300 by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico. Analytical results indicated HA1, HA2, and HA4 exhibited chloride concentrations above 600 mg/kg in the first four (4) feet and that additional delineation was needed at the Site. None of the samples exhibited benzene, BTEX or TPH above Table 1 closure criteria.



On May 24, 2021, GHD Services Inc. (GHD) and EOG's contractor BDS Enterprises, LLC (BDS), on behalf of EOG, installed eight (8) test pits (TP1 through TP8) within the area around the former oil well. The test pit locations were excavated to depths ranging from surface to approximately twenty (20) feet bgs. Soil samples were collected from varying depths of the test pits and field screened for chloride and hydrocarbons. Select samples were submitted to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated test pits TP1, TP3, TP4, TP5, TP6 and TP-7 exhibited TPH and/or chlorides above 100 mg/kg and 600 mg/kg, respectively, in the first four (4) feet and additional delineation was needed at the site. None of the samples exhibited benzene or BTEX above Table 1 closure criteria.

GHD and Culberson Construction Energy Services (CCI) returned to the site on June 28, 2021, to further delineate the site. An additional seven test pits were installed, TP9 through TP15, and additional samples were collected from TP4, TP6, and TP7. The test pit locations were excavated to depths ranging from surface to approximately twelve (12) feet bgs. Soil samples were collected from varying depths of the test pits and field screened for chloride and hydrocarbons. Select samples were submitted to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated chloride concentration above 600 mg/kg in the first four (4) feet in test pits TP9 and TP11. None of the samples exhibited benzene, BTEX or TPH above Table 1 Closure Criteria.

On July 21, 2021, GHD and Talon returned to the site to install a soil boring near TP5 to fully delineate the release to less than 100 mg/kg for TPH concentrations and 600 mg/kg for chloride concentrations. The soil boring was installed to a depth of one hundred (100) feet bgs. Samples were collected every five (5) feet with the exception of at fifty (50) feet because the boring collapsed and had to be cleared out. Soil samples were submitted to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. TPH concentrations were delineated to below 100 mg/kg at eighty-five (85) feet bgs and chloride concentrations were delineated to below 600 mg/kg at ninety (90) feet bgs. The TP-5 Soil Boring Log is provided as Attachment B. Figure 2 depicts the locations of the initial delineation samples and analytical concentrations. Analytical results are provided in Table 1, on Figure 2, and in the Laboratory Analytical Reports provided in Attachment C.

## 5. Excavation, Waste Management and Confirmation Sampling

Due to the initial soil sampling activities exhibiting chloride concentrations above NMAC 19.15.29.13 for restoration closure criteria GHD and Standard Safety and Supply (SS) mobilized to the site on January 26, 2022, to excavate the affected soils. Excavation activities continued through February 14, 2022. The surface dimensions of the excavation measured approximately one hundred forty-five (145) ft in diameter and was excavated to a depth of approximately four (4) ft bgs. As shown on Figure 3, eleven (11) sidewall (SW-1 through SW-11) and eighty-two (82) bottom hole (BH-1 through BH-82) composite confirmation samples were collected. Composite samples represented areas no larger than 200 square feet. All confirmation samples were taken to HEAL in Albuquerque, New Mexico and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. Analytical results indicated BTEX, TPH, and chloride concentrations were below Table I Closure Criteria for all samples. Analytical results for confirmation samples are provided on Table 1, on Figure 3, and in the Laboratory Analytical Reports provided in Attachment C. A photographic log is included in Attachment D.

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 3,034 tons of impacted soil were disposed at Lea Land, LLC, the waste manifests from January 27, 2022, through February 23, 2022, are available upon request and aren't included in this report due to size of the file. A Daily Disposal Summary is provided as Table 2. Confirmation sampling notifications are provide as Attachment E.

## 6. nAPP2112353281 Closure Requests

The excavation was backfilled with non-impacted material on March 14 through 18, 2022. Site characterization, soil delineation, and remediation activities for this incident number have been performed in accordance with applicable NMOCD guidance and regulations. Based upon supporting documentation provided in this report, GHD, on behalf of EOG, respectfully requests closure and no further regulatory actions for nAPP2112353281.

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

Sincerely,

GHD



Nate Reece  
Environmental Scientist



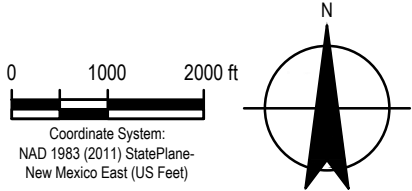
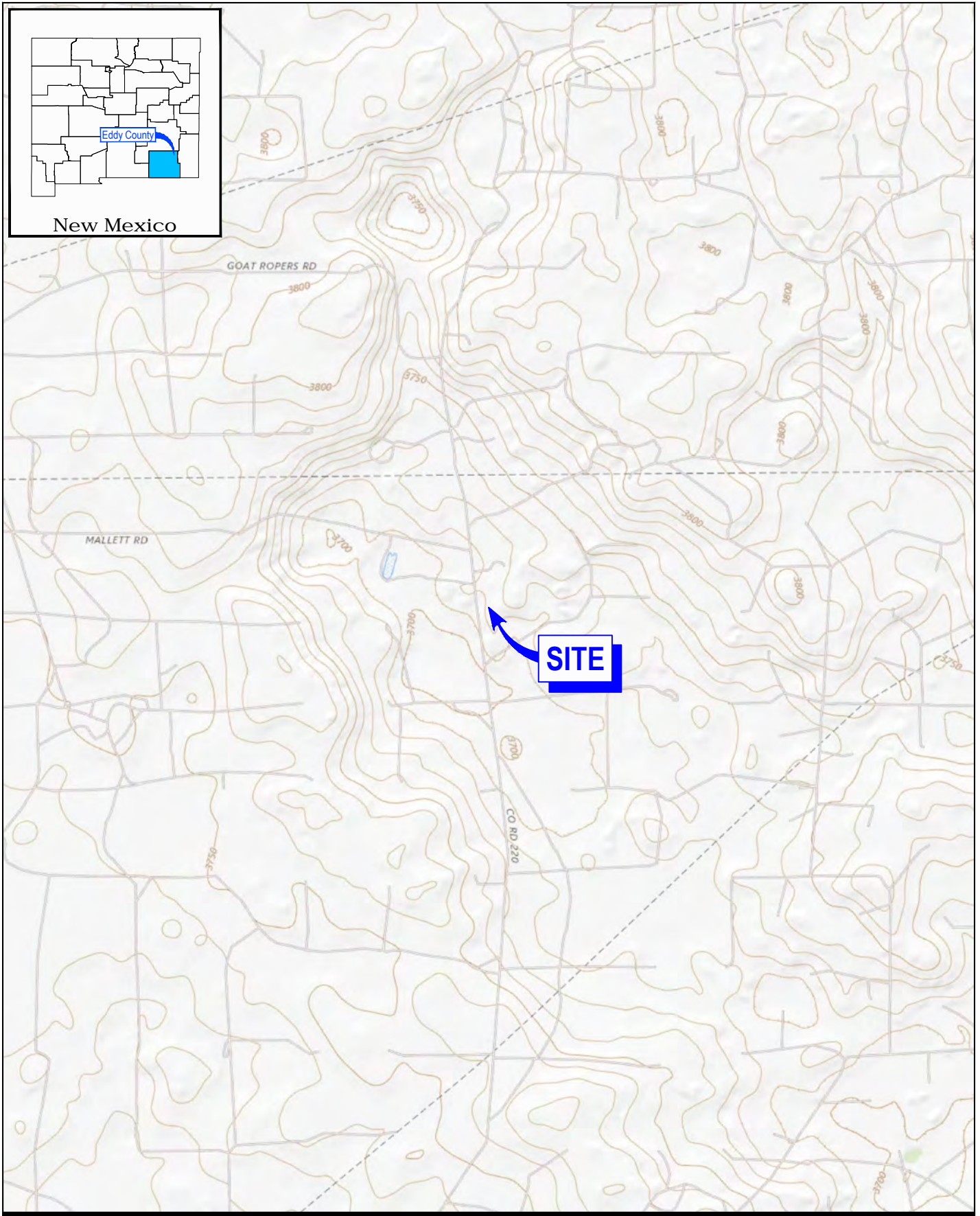
Becky Haskell  
Senior Project Manager

NR/bh/1

Encl. Figure 1 – Site Location Map  
Figure 2 – Site Assessment Soil Analytical Results Map  
Figure 3 – Confirmation Sampling Analytical Results Map  
Table 1 – Summary of Soil Analytical Data  
Table 2 – Daily Disposal Summary Table  
Attachment A – Site Characterization Documentation  
Attachment B – TP-5 Soil Boring Log  
Attachment C – Photographic Log  
Attachment D – Laboratory Analytical Reports and Chain-of-Custody Documentation  
Attachment E – Confirmation Sampling Notifications

cc: Chase Settle

# Figures



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



EOG RESOURCES  
EDDY COUNTY, NEW MEXICO  
JACKSON B #33

Project No. 11228405  
Date August 2021

SITE LOCATION MAP

FIGURE 1

DATE	TP-5																	
	05/24/2021					07/21/2021												
DEPTH	2'	4'	14'	20'	25'	30'	35'	40'	45'	55'	60'	70'	75'	80'	85'	90'	95'	100'
BENZENE	<0.024	<0.025	<0.025	<0.024	<0.025	<0.025	<0.025	<0.025	<0.024	<0.024	<0.024	<0.025	<0.025	<0.025	<0.025	<0.024	<0.025	<0.024
BTEX	<0.094	<0.10	<0.098	<0.095	<0.10	<0.099	<0.099	<0.099	<0.097	<0.098	<0.098	<0.098	<0.10	<0.099	<0.098	<0.097	<0.098	<0.097
TPH	<45	<43	<48	<50	<47	100	143	<47	<50	69	19	<49	119	143	14	<47	<47	<49
CHLORIDE	1,100	1,200	2,800	2,100	2,300	1,700	1,900	1,700	1,800	4,900	4,300	580	1,700	1,300	2,100	170	120	96

TP-6			
DATE	05/24/2021		06/28/2021
DEPTH	SURFACE	2'	4'
BENZENE	<0.023	<0.024	<0.024
BTEX	<0.094	<0.098	<0.097
TPH	153	250	<48
CHLORIDE	490	730	280

TP-12 06/28/2021		
DEPTH	SURFACE	2'
BENZENE	<0.024	<0.023
BTEX	<0.095	<0.093
TPH	<47	<44
CHLORIDE	<60	<60

TP-13 06/28/2021		
DEPTH	SURFACE	2'
BENZENE	<0.024	<0.024
BTEX	<0.097	<0.095
TPH	<48	<47
CHLORIDE	<60	<60

TP-11 06/28/2021				
DEPTH	2'	8'	10'	12'
BENZENE	<0.023	<0.024	<0.025	<0.024
BTEX	<0.092	<0.096	<0.099	<0.095
TPH	<50	<41	<46	<48
CHLORIDE	4,200	4,300	3,600	370

HA-4 05/03/2021		
DEPTH	2'	4'
BENZENE	<0.024	<0.024
BTEX	<0.098	<0.097
TPH	<48	<47
CHLORIDE	1,100	870

TP-14 06/28/2021		
DEPTH	SURFACE	2'
BENZENE	<0.023	<0.025
BTEX	<0.093	<0.099
TPH	<48	<48
CHLORIDE	120	100

TP-10 06/28/2021		
DEPTH	SURFACE	2'
BENZENE	<0.024	<0.023
BTEX	<0.096	<0.094
TPH	<48	<44
CHLORIDE	<60	<60

TP-7			
DEPTH	05/24/2021	06/28/2021	
DEPTH	4'	6'	
BENZENE	<0.025	<0.024	
BTEX	<0.098	<0.096	
TPH	<45	<45	
CHLORIDE	930	65	

TP-9 06/28/2021		
DEPTH	2'	4'
BENZENE	<0.024	<0.023
BTEX	<0.096	<0.091
TPH	<48	<49
CHLORIDE	760	630

TP-8 05/24/2021		
DEPTH	SURFACE	2'
BENZENE	<0.025	<0.025
BTEX	<0.10	<0.10
TPH	<49	<48
CHLORIDE	110	290

TP-4		
DATE	05/24/2021	06/28/2021
DEPTH	2'	4'
BENZENE	<0.024	<0.024
BTEX	<0.098	<0.097
TPH	<47	<44
CHLORIDE	890	120

HA-1 05/03/2021		
DEPTH	2'	4'
BENZENE	<0.023	<0.024
BTEX	<0.093	<0.097
TPH	<50	<47
CHLORIDE	3,900	4,400

TP-3 05/24/2021			
DEPTH	4'	12'	14'
BENZENE	<0.025	<0.025	<0.025
BTEX	<0.10	<0.10	<0.10
TPH	223	<46	<41
CHLORIDE	1,600	1,600	600

TP-1 05/24/2021		
DEPTH	SURFACE	2'
BENZENE	<0.023	<0.025
BTEX	<0.093	<0.099
TPH	710	171
CHLORIDE	2,300	170

HA-2 05/03/2021		
DEPTH	2'	4'
BENZENE	<0.023	<0.025
BTEX	<0.093	<0.098
TPH	16	<45
CHLORIDE	2,000	630

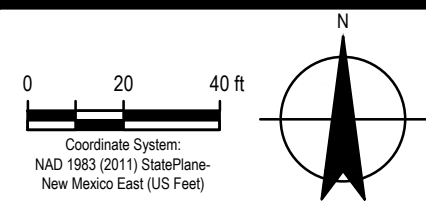
TP-2 05/24/2021		
DEPTH	SURFACE	
BENZENE	<0.023	
BTEX	<0.093	
TPH	<42	
CHLORIDE	<60	

TP-15 06/28/2021		
DEPTH	SURFACE	2'
BENZENE	<0.024	<0.024
BTEX	<0.096	<0.098
TPH	<44	<43
CHLORIDE	<60	<59

**LEGEND**

- INFERRED IMPACTED AREA
- HAND AUGER LOCATION
- 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.
  - YELLOW SHADED CELLS INDICATE EXCEEDANCE.



**EOG RESOURCES**  
**EDDY COUNTY, NEW MEXICO**  
**JACKSON B #33**

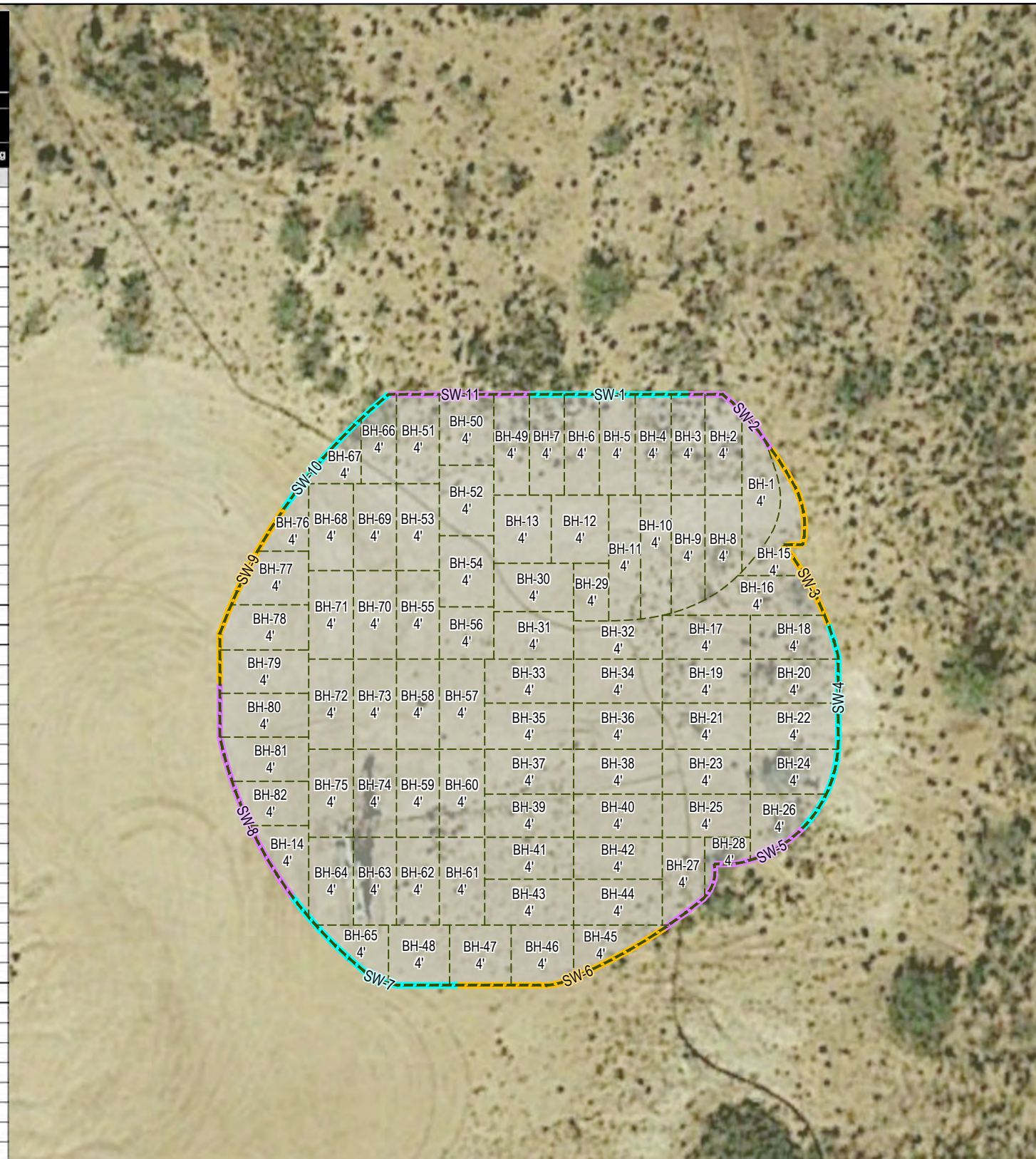
**SITE ASSESSMENT:**  
**SOIL ANALYTICAL RESULTS MAP**

Project No. **11228405**  
 Date **August 2021**

**FIGURE 2**

Sample ID	Sample Date	Depth (ft bgs)	Benzene	BTEX	Total Petroleum Hydrocarbons (TPH) Total GRO/DRO/MRO	Chloride	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
			Table 1 Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC				
				10 mg/kg	50 mg/kg	2,500 mg/kg	20,000 mg/kg
<b>Bottom Hole Confirmation Samples</b>							
BH-1	01/31/2022	4'	<0.025	<0.098	<48	820	
BH-2	01/31/2022	4'	<0.025	<0.099	<49	2,000	
BH-3	01/31/2022	4'	<0.025	<0.10	<49	2,100	
BH-4	01/31/2022	4'	<0.025	<0.098	<50	1,700	
BH-5	01/31/2022	4'	<0.025	<0.098	28	2,000	
BH-6	01/31/2022	4'	<0.025	<0.099	<50	2,300	
BH-7	01/31/2022	4'	<0.025	<0.099	<48	2,400	
BH-8	01/31/2022	4'	<0.025	<0.10	13	1,300	
BH-9	01/31/2022	4'	<0.024	<0.098	<50	1,200	
BH-10	01/31/2022	4'	<0.024	<0.097	<50	1,300	
BH-11	01/31/2022	4'	<0.025	<0.099	<48	1,000	
BH-12	01/31/2022	4'	<0.025	<0.099	<50	1,600	
BH-13	01/31/2022	4'	<0.025	<0.10	<46	2,400	
BH-14	2/9/2022	4'	<0.024	<0.097	<49.1	2,400	
BH-15	2/10/2022	4'	<0.024	<0.097	<50	1,100	
BH-16	2/10/2022	4'	<0.024	<0.098	<50	1,500	
BH-17	2/10/2022	4'	<0.025	<0.099	11	1,300	
BH-18	2/10/2022	4'	<0.025	<0.10	<45	1,000	
BH-19	2/10/2022	4'	<0.024	<0.097	<50	940	
BH-20	2/10/2022	4'	<0.025	<0.099	<49	920	
BH-21	2/10/2022	4'	<0.025	<0.099	80	910	
BH-22	2/10/2022	4'	<0.024	<0.096	<46	1,300	
BH-23	2/10/2022	4'	<0.025	<0.099	71	1,400	
BH-24	2/10/2022	4'	<0.025	<0.098	17	950	
BH-25	2/10/2022	4'	<0.024	<0.098	<50	1,500	
BH-26	2/10/2022	4'	<0.025	<0.099	<48	1,300	
BH-27	2/10/2022	4'	<0.025	<0.099	<46	1,100	
BH-28	2/10/2022	4'	<0.024	<0.097	<46	1,100	
BH-29	2/10/2022	4'	<0.024	<0.098	<48	2,200	
BH-30	2/10/2022	4'	<0.025	<0.099	<49	2,700	
BH-31	2/10/2022	4'	<0.025	<0.099	<46	3,400	
BH-32	2/10/2022	4'	<0.024	<0.097	<45	1,800	
BH-33	2/10/2022	4'	<0.025	<0.10	<48	2,200	
BH-34	2/10/2022	4'	<0.024	<0.097	<50	1,400	
BH-35	2/10/2022	4'	<0.025	<0.098	<47	2,500	
BH-36	2/10/2022	4'	<0.025	<0.099	<50	1,600	
BH-37	2/10/2022	4'	<0.025	<0.099	<47	5,000	
BH-38	2/10/2022	4'	<0.025	<0.10	<47	2,000	
BH-39	2/10/2022	4'	<0.025	<0.098	<49	3,400	
BH-40	2/10/2022	4'	<0.024	<0.097	<48	1,900	
BH-41	2/10/2022	4'	<0.025	<0.099	<47	2,200	
BH-42	2/10/2022	4'	<0.025	<0.10	<44	1,600	
BH-43	2/10/2022	4'	<0.025	<0.099	<50	2,300	
BH-44	2/10/2022	4'	<0.025	<0.099	<48	1,200	
BH-45	2/10/2022	4'	<0.024	<0.096	<43	950	
BH-46	2/10/2022	4'	<0.025	<0.098	<44	760	
BH-47	2/11/2022	4'	<0.024	<0.098	<50	220	
BH-48	2/11/2022	4'	<0.024	<0.098	<47	120	
BH-49	2/11/2022	4'	<0.025	<0.099	<46	2,800	

Sample ID	Sample Date	Depth (ft bgs)	Benzene	BTEX	Total Petroleum Hydrocarbons (TPH) Total GRO/DRO/MRO	Chloride	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
			Table 1 Closure Criteria for Soils >100 feet Depth to Groundwater 19.15.29 NMAC				
				10 mg/kg	50 mg/kg	2,500 mg/kg	20,000 mg/kg
<b>Bottom Hole Confirmation Samples</b>							
BH-50	2/11/2022	4'	<0.025	<0.098	<48	1,300	
BH-51	2/11/2022	4'	<0.025	<0.10	<49	980	
BH-52	2/11/2022	4'	<0.024	<0.096	<49	810	
BH-53	2/11/2022	4'	<0.024	<0.094	<47	620	
BH-54	2/11/2022	4'	<0.024	<0.096	<49	2,000	
BH-55	2/11/2022	4'	<0.025	<0.099	17	2,200	
BH-56	2/11/2022	4'	<0.024	<0.097	<45	2,100	
BH-57	2/11/2022	4'	<0.024	<0.097	<48	930	
BH-58	2/11/2022	4'	<0.024	<0.096	11	1,100	
BH-59	2/11/2022	4'	<0.024	<0.095	16	610	
BH-60	2/11/2022	4'	<0.024	<0.097	79	740	
BH-61	2/11/2022	4'	<0.024	<0.097	181	910	
BH-62	2/11/2022	4'	<0.025	<0.098	14	670	
BH-63	2/11/2022	4'	<0.024	<0.097	<47	620	
BH-64	2/11/2022	4'	<0.024	<0.097	<47	1,800	
BH-65	2/11/2022	4'	<0.024	<0.09	<46	230	
BH-66	2/14/2022	4'	<0.025	<0.10	<48	740	
BH-67	2/14/2022	4'	<0.025	<0.098	<48	580	
BH-68	2/14/2022	4'	<0.024	<0.097	<47	1,200	
BH-69	2/14/2022	4'	<0.024	<0.095	<50	450	
BH-70	2/14/2022	4'	<0.025	<0.099	91	1,700	
BH-71	2/14/2022	4'	<0.024	<0.097	<48	1,300	
BH-72	2/14/2022	4'	<0.025	<0.099	<43	1,200	
BH-73	2/14/2022	4'	<0.024	<0.096	<48	1,400	
BH-74	2/14/2022	4'	<0.024	<0.098	<50	2,200	
BH-75	2/14/2022	4'	<0.024	<0.097	140	3,300	
BH-76	2/14/2022	4'	<0.025	<0.099	<46	640	
BH-77	2/14/2022	4'	<0.025	<0.10	<43	610	
BH-78	2/14/2022	4'	<0.024	<0.095	<46	210	
BH-79	2/14/2022	4'	<0.024	<0.098	<46	170	
BH-80	2/14/2022	4'	<0.024	<0.095	<48	130	
BH-81	2/14/2022	4'	<0.025	<0.098	15	380	
BH-82	2/14/2022	4'	<0.12	<0.48	600	1,300	
<b>Sidewall Confirmation Samples</b>							
SW-1	02/01/2022	N/A	<0.025	<0.098	<49	170	
SW-2	02/01/2022	N/A	<0.024	<0.097	<49	380	
SW-3	02/01/2022	N/A	<0.025	<0.099	<49	320	
SW-3	02/08/2022	N/A	<0.024	<0.095	<49	340	
SW-4	02/08/2022	N/A	<0.024	<0.098	<49	420	
SW-5	02/08/2022	N/A	<0.023	<0.092	<49	210	
SW-6	02/08/2022	N/A	<0.024	<0.096	<47	170	
SW-7	02/08/2022	N/A	<0.025	<0.099	<47	63	
SW-8	02/11/2022	4'	<0.024	<0.097	<47	500	
SW-9	2/10/2022	N/A	<0.025	<0.10	<46	290	
SW-10	2/10/2022	N/A	<0.024	<0.098	12	600	
SW-11	02/08/2022	N/A	<0.024	<0.10	<48	78	

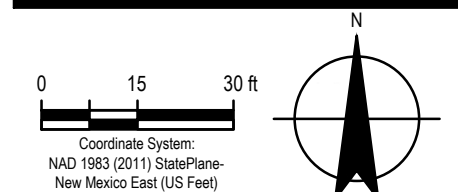


**LEGEND**

- 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.
- YELLOW SHADED CELLS INDICATE EXCEEDANCE.



EOG RESOURCES  
EDDY COUNTY, NEW MEXICO  
JACKSON B #33

**SITE ASSESSMENT:  
SOIL ANALYTICAL RESULTS MAP**

Project No. 11228405  
Date March 2022

**FIGURE 3**

# Tables

**Table 1**  
**Summary of Soil Analytical Data**  
**Jackson B #33**  
**EOG Resources**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	Total Petroleum Hydrocarbons (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 1 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
<b>Initial Assessment Samples</b>												
HA1-2	5/3/21	2'	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<10	<50	<50	3,900
HA1-4	5/3/21	4'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.3	<47	<47	4,400
HA2-2	5/3/21	2'	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	16	<49	16	2,000
HA2-4	5/3/21	4'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.0	<45	<45	630
HA3-2	5/3/21	2'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.5	<48	<48	230
HA3-4	5/3/21	4'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.6	<48	<48	250
HA4-2	5/3/21	2'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.6	<48	<48	1,100
HA4-4	5/3/21	4'	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.5	<47	<47	870
<b>Test Pit Samples</b>												
TP1-S	5/24/21	Surface	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	210	500	710	2,300
TP1-2	5/24/21	2'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	51	120	171	170
TP2-S	5/24/21	Surface	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<8.5	<42	<42	<60
TP3-4	5/24/21	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	93	130	223	1,600
TP3-12	5/24/21	12'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.3	<46	<46	1,600
TP3-14	5/24/21	14'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.3	<41	<41	600
TP4-2	5/24/21	2'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<47	<47	890
TP4-4	6/28/21	4'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<8.9	<44	<44	120
TP5-2	5/24/21	2'	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.0	<45	<45	1,100
TP5-4	5/24/21	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.6	<43	<43	1,200
TP5-14	5/24/21	14'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<48	<48	2,800
TP5-20	5/24/21	20'	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.9	<50	<50	2,100
TP5-25	7/21/21	25'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.4	<47	<47	2,300
TP5-30	7/21/21	30'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	27	73	100	1,700
TP5-35	7/21/21	35'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	61	82	143	1,900
TP5-40	7/21/21	40'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.3	<47	<47	1,700
TP5-45	7/21/21	45'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<50	<50	1,800
TP5-55	7/21/21	55'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	21	48	69	4,900
TP5-60	7/21/21	60'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	19	<50	19	4,300
TP5-70	7/21/21	70'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<49	580
TP5-75	7/21/21	75'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	21	98	119	1,700



**Table 1**  
**Summary of Soil Analytical Data**  
**Jackson B #33**  
**EOG Resources**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	Total Petroleum Hydrocarbons (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 1 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	
TP5-80	7/21/21	80'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	33	110	143	1,300
TP5-85	7/21/21	85'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	14	<48	14	2,100
TP5-90	7/21/21	90'	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.3	<47	<47	170
TP5-95	7/21/21	95'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.4	<47	<47	120
TP5-100	7/21/21	100'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<49	<49	96
TP6-S	5/24/21	Surface	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	13	140	153	490
TP6-2	5/24/21	2'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	30	220	250	730
TP6-4	6/28/21	4'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.6	<48	<48	280
TP7-4	5/24/21	4'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.0	<45	<45	930
TP7-6	6/28/21	6'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.9	<45	<45	65
TP8-S	5/24/21	Surface	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.9	<49	<49	110
TP8-2	5/24/21	2'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<48	290
TP9-2	6/28/21	2'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.6	<48	<48	760
TP9-4	6/28/21	4'	<0.023	<0.046	<0.046	<0.091	<0.091	<4.6	<9.7	<49	<49	630
TP10-S	6/28/21	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<48	<48	<60
TP10-2	6/28/21	2'	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<8.9	<44	<44	<60
TP11-2	6/28/21	2'	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.9	<50	<50	4,200
TP11-8	6/28/21	8'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.2	<41	<41	4,300
TP11-10	6/28/21	10'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.2	<46	<46	3,600
TP11-12	6/28/21	12'	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.7	<48	<48	370
TP12-S	6/28/21	Surface	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.5	<47	<47	<60
TP12-2	6/28/21	2'	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<8.7	<44	<44	<60
TP13-S	6/28/21	Surface	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.6	<48	<48	<60
TP13-2	6/28/21	2'	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.4	<47	<47	<60
TP14-S	6/28/21	Surface	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.6	<48	<48	120
TP14-2	6/28/21	2'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<48	<48	100
TP15-S	6/28/21	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.8	<44	<44	<60
TP15-2	6/28/21	2'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<8.6	<43	<43	<59
<b>Bottom Hole Confirmation Samples</b>												
BH-1	01/31/2022	4'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<48	<48	820

**Table 1  
Summary of Soil Analytical Data  
Jackson B #33  
EOG Resources  
Eddy County, New Mexico**

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	Total Petroleum Hydrocarbons (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 1 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-2	01/31/2022	4'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.9	<49	<49	2,000
BH-3	01/31/2022	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<49	2,100
BH-4	01/31/2022	4'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<50	<50	1,700
BH-5	01/31/2022	4'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	28	<48	28	2,000
BH-6	01/31/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<50	<50	2,300
BH-7	01/31/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48	2,400
BH-8	01/31/2022	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	13	<47	13	1,300
BH-9	01/31/2022	4'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<50	<50	1,200
BH-10	01/31/2022	4'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<10	<50	<50	1,300
BH-11	01/31/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.7	<48	<48	1,000
BH-12	01/31/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<10	<50	<50	1,600
BH-13	01/31/2022	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.2	<46	<46	2,400
BH-14	2/9/2022	4'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<8.1	<41	<49.1	2,400
BH-15	2/10/2022	4'	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<10	<50	<50	1,100
BH-16	2/10/2022	4'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<50	<50	1,500
BH-17	2/10/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	11	<50	11	1,300
BH-18	2/10/2022	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.0	<45	<45	1,000
BH-19	2/10/2022	4'	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<10	<50	<50	940
BH-20	2/10/2002	4'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<49	<49	920
BH-21	2/10/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	30	50	80	910
BH-22	2/10/2022	4'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.2	<46	<46	1,300
BH-23	2/10/2022	4'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	22	49	71	1,400
BH-24	2/10/2022	4'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	17	<47	17	950
BH-25	2/10/2022	4'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<50	<50	1,500
BH-26	2/10/2022	4'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.6	<48	<48	1,300
BH-27	2/10/2022	4'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.2	<46	<46	1,100
BH-28	2/10/2022	4'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.2	<46	<46	1,100
BH-29	2/10/2022	4'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<48	<48	2,200
BH-30	2/10/2022	4'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<49	<49	2,700
BH-31	2/10/2022	4'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.3	<46	<46	3,400
BH-32	2/10/2022	4'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.0	<45	<45	1,800
BH-33	2/10/2022	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<48	2,200
BH-34	2/10/2022	4'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<10	<50	<50	1,400

**Table 1**  
**Summary of Soil Analytical Data**  
**Jackson B #33**  
**EOG Resources**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	Total Petroleum Hydrocarbons (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 1 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-35	2/10/2022	4'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<47	<47	2,500
BH-36	2/10/2022	4'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<10	<50	<50	1,600
BH-37	2/10/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.4	<47	<47	5,000
BH-38	2/10/2022	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.4	<47	<47	2,000
BH-39	2/10/2022	4'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<49	3,400
BH-40	2/10/2022	4'	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.6	<48	<48	1,900
BH-41	2/10/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<47	<47	2,200
BH-42	2/10/2022	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.9	<44	<44	1,600
BH-43	2/10/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<10	<50	<50	2,300
BH-44	2/10/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<48	<48	1,200
BH-45	2/10/2022	4'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.5	<43	<43	950
BH-46	2/10/2022	4'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<8.9	<44	<44	760
BH-47	2/11/2022	4'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<50	<50	220
BH-48	2/11/2022	4'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.4	<47	<47	120
BH-49	2/11/2022	4'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.3	<46	<46	2,800
BH-50	2/11/2022	4'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<48	<48	1,300
BH-51	2/11/2022	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.8	<49	<49	980
BH-52	2/11/2022	4'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.8	<49	<49	810
BH-53	2/11/2022	4'	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.4	<47	<47	620
BH-54	2/11/2022	4'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.8	<49	<49	2,000
BH-55	2/11/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	17	<47	17	2,200
BH-56	2/11/2022	4'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.0	<45	<45	2,100
BH-57	2/11/2022	4'	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.6	<48	<48	930
BH-58	2/11/2022	4'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	11	<47	11	1,100
BH-59	2/11/2022	4'	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	16	<48	16	610
BH-60	2/11/2022	4'	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	27	52	79	740
BH-61	2/11/2022	4'	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	81	100	181	910
BH-62	2/11/2022	4'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	14	<50	14	670
BH-63	2/11/2022	4'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.5	<47	<47	620
BH-64	2/11/2022	4'	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.4	<47	<47	1,800
BH-65	2/11/2022	4'	<0.024	<0.047	<0.047	<0.095	<0.09	<4.7	<9.2	<46	<46	230
BH-66	2/14/2022	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<48	740
BH-67	2/14/2022	4'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<48	<48	580

**Table 1**  
**Summary of Soil Analytical Data**  
**Jackson B #33**  
**EOG Resources**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	Total Petroleum Hydrocarbons (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)
<b>Table I Closure Criteria for Soils &gt;100 feet Depth to Groundwater 19.15.29 NMAC</b>												
			10 mg/kg	---	---	---	50 mg/kg	1,000 mg/kg		---	2,500 mg/kg	20,000 mg/kg
BH-68	2/14/2022	4'	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.5	<47	<47	<b>1,200</b>
BH-69	2/14/2022	4'	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.9	<50	<50	<b>450</b>
BH-70	2/14/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<b>21</b>	<b>70</b>	<b>91</b>	<b>1,700</b>
BH-71	2/14/2022	4'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.6	<48	<48	<b>1,300</b>
BH-72	2/14/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<8.6	<43	<43	<b>1,200</b>
BH-73	2/14/2022	4'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.5	<48	<48	<b>1,400</b>
BH-74	2/14/2022	4'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<50	<50	<b>2,200</b>
BH-75	2/14/2022	4'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<b>63</b>	<b>77</b>	<b>140</b>	<b>3,300</b>
BH-76	2/14/2022	4'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.3	<46	<46	<b>640</b>
BH-77	2/14/2022	4'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<8.5	<43	<43	<b>610</b>
BH-78	2/14/2022	4'	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.2	<46	<46	<b>210</b>
BH-79	2/14/2022	4'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.1	<46	<46	<b>170</b>
BH-80	2/14/2022	4'	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.6	<48	<48	<b>130</b>
BH-81	2/14/2022	4'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<b>15</b>	<50	<b>15</b>	<b>380</b>
BH-82	2/14/2022	4'	<0.12	<0.24	<0.24	<0.48	<0.48	<24	<b>340</b>	<b>260</b>	<b>600</b>	<b>1,300</b>
<b>Sidewall Confirmation Samples</b>												
SW-1	02/01/2022	N/A	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<49	<49	<b>170</b>
SW-2	02/01/2022	N/A	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.7	<49	<49	<b>380</b>
SW-3	02/01/2022	N/A	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.8	<49	<49	<b>320</b>
SW-3	02/08/2022	N/A	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.7	<49	<49	<b>340</b>
SW-4	02/08/2022	N/A	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<49	<49	<b>420</b>
SW-5	02/08/2022	N/A	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.8	<49	<49	<b>210</b>
SW-6	02/08/2022	N/A	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.3	<47	<47	<b>170</b>
SW-7	02/08/2022	N/A	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.5	<47	<47	<b>63</b>
SW-8	02/11/2022	N/A	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.3	<47	<47	<b>500</b>
SW-9	2/10/2022	N/A	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.1	<46	<46	<b>290</b>
SW-10	2/10/2022	N/A	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<b>12</b>	<46	<b>12</b>	<b>600</b>
SW-11	02/08/2022	N/A	<0.024	<0.048	<0.048	<0.096	<0.10	<4.8	<9.6	<48	<48	<b>78</b>

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

Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I for depth to water greater than 100 ft

Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I for depth to water less than 50 ft

Table 1  
 Summary of Soil Analytical Data  
 Jackson B #33  
 EOG Resources  
 Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	BTEX (mg/kg)	Total Petroleum Hydrocarbons (TPH)				Chloride (mg/kg)
								GRO (C6-C10) (mg/kg)	DRO (C10-C28) (mg/kg)	MRO (C28-C35) (mg/kg)	Total GRO/DRO/MRO (mg/kg)	
Table 1 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
B-BH-2		Sample Point Excavated										

**Table 2**  
**Daily Disposal Summary**  
**Jackson B #33**  
**EOG Resources**  
**Eddy, County, New Mexico**

<b>Date of Disposal</b>	<b>Total Pounds Disposed</b>	<b>Total Tons Disposed</b>
1/27/2022	575,720	287.86
1/28/2022	342,010	171.01
1/31/2022	729,540	364.77
2/1/2022	430,960	215.48
2/7/2022	1,237,380	618.69
2/8/2022	1,054,460	527.23
2/9/2022	1,086,200	543.10
2/10/2022	501,340	250.67
2/11/2022	593,260	296.63
2/14/2022	91,900	45.95
<b>Project Total</b>	<b>6,067,050</b>	<b>3,034</b>

# Attachment A Site Characterization Documentation

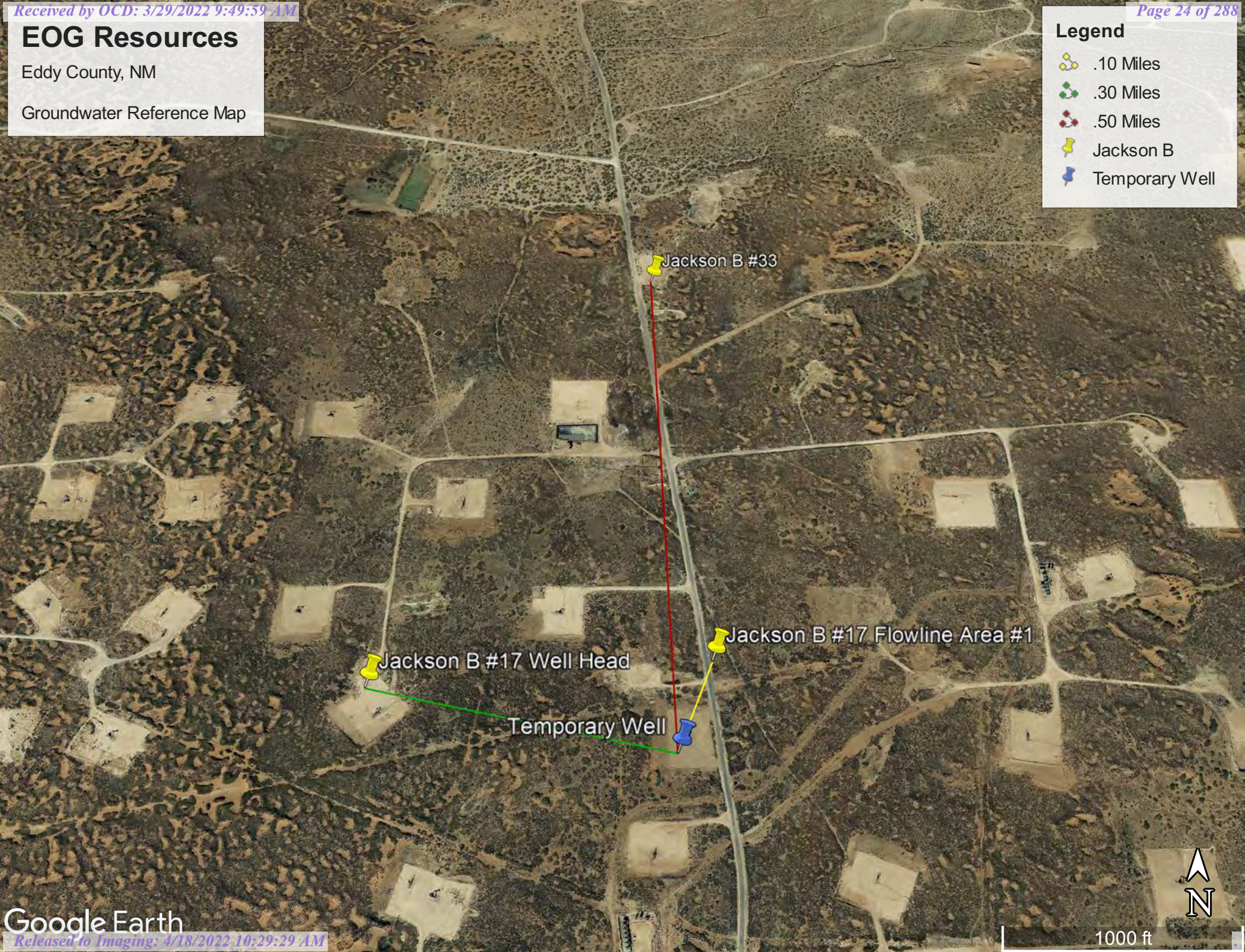
# EOG Resources

Eddy County, NM

Groundwater Reference Map

## Legend

-  .10 Miles
-  .30 Miles
-  .50 Miles
-  Jackson B
-  Temporary Well




1000 ft



# EOG Jackson B#59

Eddy County, New Mexico

## Legend

 32.85697,-103.92703

32.85697,-103.92703

 Jackson B#59 Temp Well

Square Lake Rd  
220

Google Earth



1000 ft



# BORING LOG

Project No.: 700438.238.01

Weather: Clear, Temp.: 75°F

Driller: D. Londagin

Site Name: Jackson B #59

Logger: D. Adkins

Rig Type: Reich Drill

Location: Eddy County, New Mexico

Field Instrument: NA

Bit Size: 5-7/8"

Date: 5/18/2021

Latitude: 32.85697 N

Drilling Method: Air Rotary

Boring Number: B-1

Longitude: -103.92703 W

Sample Retrieval Method: Drill Cuttings

Time	Lab Sample Collected	Sample Interval (ft)	Sample Recovery (ft)	USCS	Composition (%)	Sample Material/Comments Include composition, color, grain size, moisture, hardness, plasticity, density	Hydrocarbon Odor	PID (ppm)
	<input type="checkbox"/>	0-30'				Red/brown fine Sand (SP)	None Slight Mod. Strong	
	<input type="checkbox"/>	30-40'				Red/brown fine Sand (SP) with varying amounts of silt and caliche	None Slight Mod. Strong	
	<input type="checkbox"/>	40-80'				Dry, dark red/brown sandy Silts (SM)	None Slight Mod. Strong	
	<input type="checkbox"/>	80-125'				Red/brown fine Sand (SP)	None Slight Mod. Strong	
	<input type="checkbox"/>					__ TD 125' __	None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	

Surface Elevation: \_\_\_\_\_

Notes: Groundwater Not Encountered @ 125' BGS – 72 hr.

Logger Initials: DJA

Time	Lab Sample Collected	Sample Interval (ft)	Sample Recovery (ft)	USCS	Composition (%)	Sample Material/Comments Include composition, color, grain size, moisture, hardness, plasticity, density	Hydrocarbon Odor None Slight Mod. Strong	PID (ppm)
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	


**Notes:**

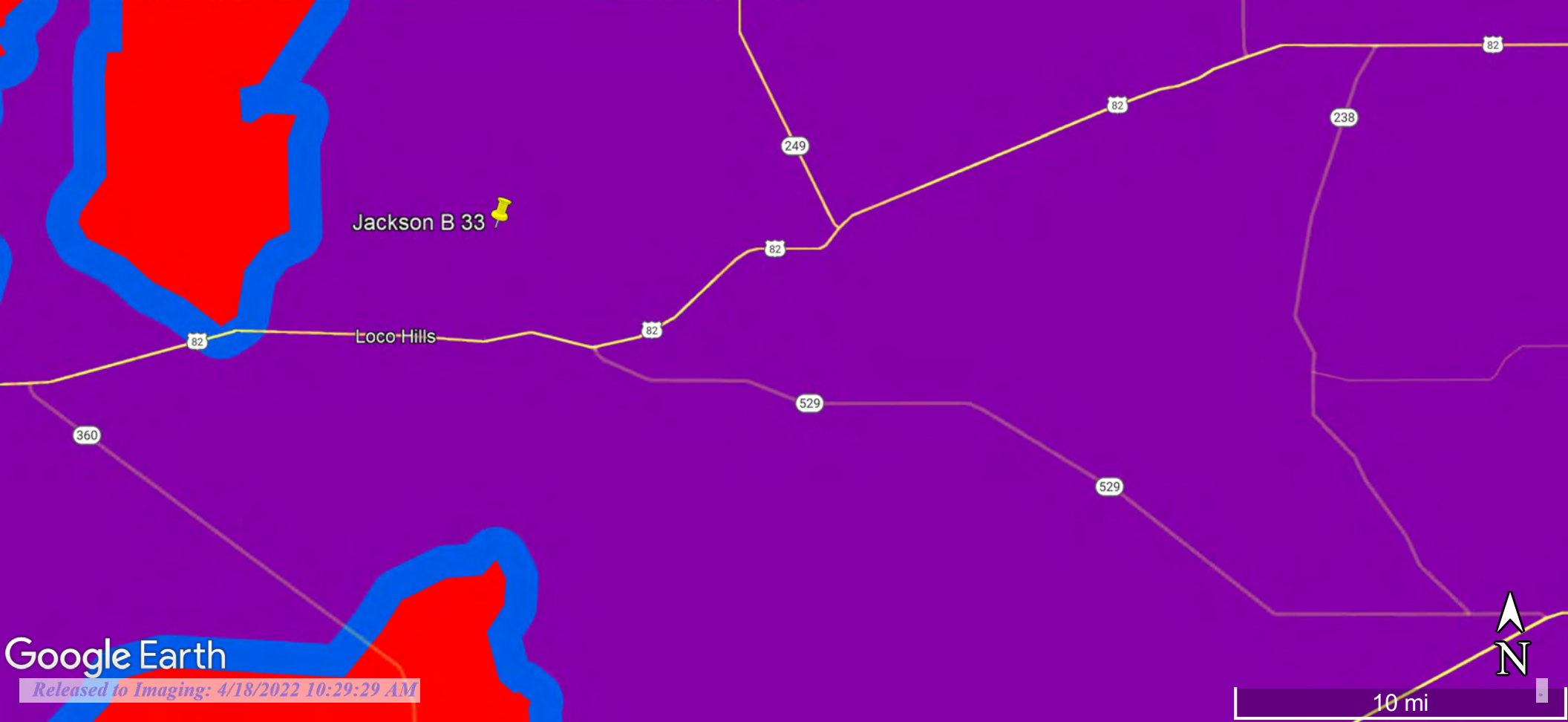
The borehole was advanced to 125' below ground surface (bgs). A 2-inch diameter temporary well constructed of schedule 40 PVC thread coupled to 10-feet of machine slotted well screen was installed in the open borehole. 72-hours after installation, a Solinest water level meter was utilized to determine the presence or absence of groundwater. The temporary well casing was subsequently removed and the bore hole backfilled with hole plug (bentonite chips) and hydrated.

# Jackson B 33

Significant Watercourse Map

**Legend**

-  300 ft Radius
-  Half Mile Radius
-  Jackson B



Google Earth



# OSE PUBLIC PRINT



8/20/2021, 9:20:36 AM

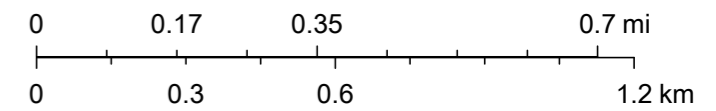
OSE District Boundary

New Mexico State Trust Lands

Both Estates

SiteBoundaries




1:18,056

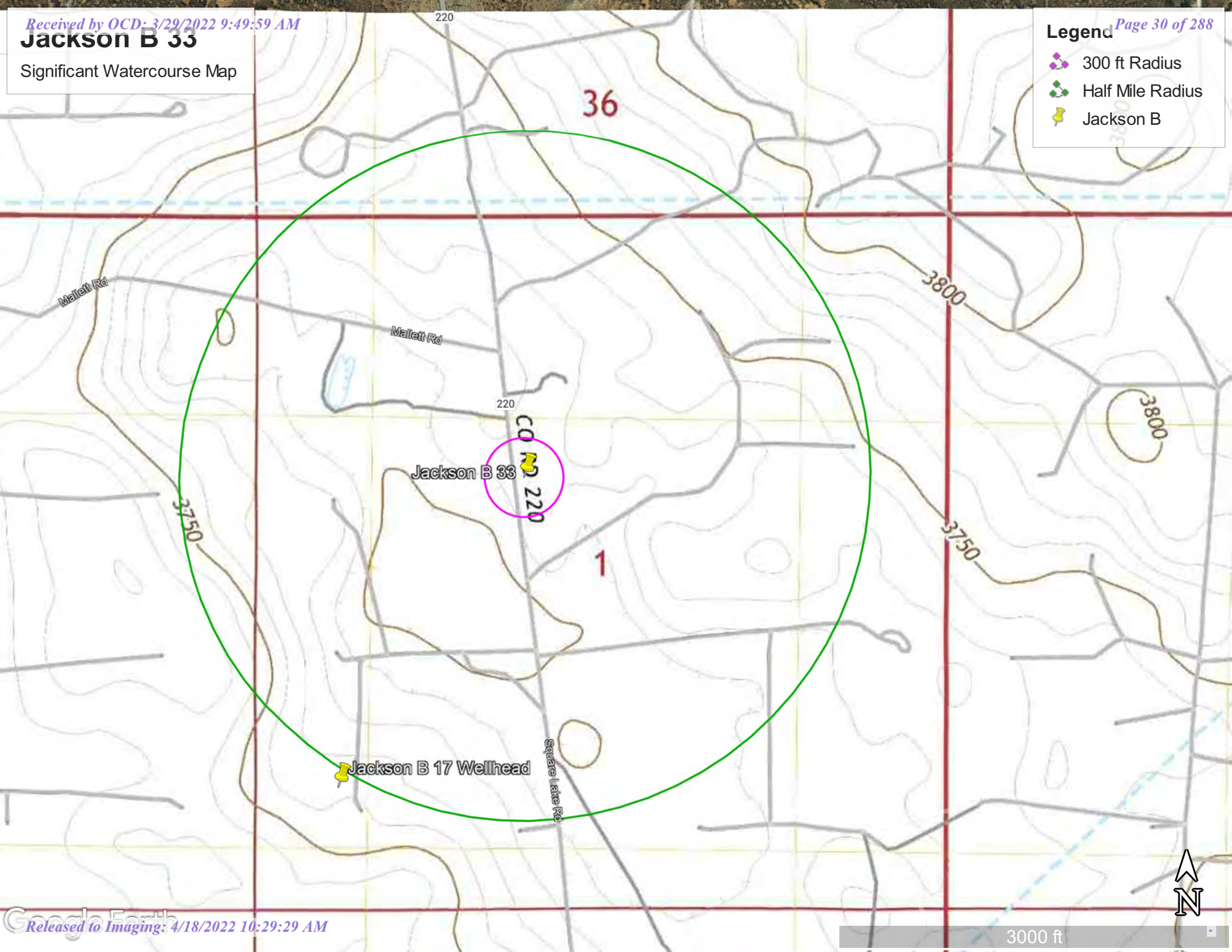


Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

# Jackson B 33

Significant Watercourse Map

-  300 ft Radius
-  Half Mile Radius
-  Jackson B













# Jackson B 33



August 20, 2021

### Wetlands

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

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

# National Flood Hazard Layer FIRMette



103°55'57"W 32°52'10"N



## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		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 <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
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.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/26/2021 at 1:10 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



# Attachment B TP-5 Soil Boring Log



## SOIL BORING STRATIGRAPHIC LOG (OVERBURDEN)

PROJECT NAME: EOG Jackson B #33 PROJECT NUMBER: 11228405 CLIENT: EOG Resources. INC.  
 LOCATION: F-1-17S-30E, 32.866518, -103.927175 Eddy County, NM  
 HOLE DESIGNATION: TP-5 DATE COMPLETED: 21 July 2021  
 TEST PIT METHOD: Air Rotary FIELD PERSONNEL: Lee M./Zach C.

File: \\GHDNET\GHD\US\MIDLAND\PROJECTS\56211228405\FIELD NOTES\GINT LOGS\11228405 LOG.GPJ Library File: 11228405 GHD\_ENVIRO\_V04.GLB Report: OVERBURDEN LOG Date: 19/09/21

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH m BGS	SAMPLE					
			NUMBER	INTERVAL	REC (%)	mS/cm	NaCl	
	START STRAT LOG @: 20 ft							
25	SAND, fine, with sandstone interbedded, brown, dry		20-25'		100	1490		
30			25-30'		100	1100		
35	- with partially consolidated sandstone, brown, dry from 32.50 to 37.00ft BGS		30-35'		100	2000		
40			35-40'		100	1447		
45	CLAYEY SAND, with partially consolidated sandstone throughout, dry	37.00	40-45'		100	1130	732	
50	BORE collapsed and fell to 52.5 ft bgs		45-50'		0			
55			50-55'		100	1320		
60	SAND, brown and gray, dry		55-60'		100	2220		
65			60-65'		0			
70	- with consolidated sandstone, brown, dry from 57.50 to 90.00ft BGS		65-70'		100	1232		
75			70-75'		100	980		
80			75-80'		100	985		
85			80-85'		100	1750		
90	- with partially consolidated beds of sandstone, brown, dry from 90.00 to 100.00ft BGS		85-90'		100	280	252	
95			90-95'		100	270	252	
100	END OF BOREHOLE @ 100.00ft BGS	100.00	95-100'		100	110		

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

CHEMICAL ANALYSIS



# Attachment C Photographic Log



## Site Photograph

### EOG Jackson B #33 Release Site.

GHD | Report for EOG | 11228405



## Site Photograph

**EOG Jackson B #33 Release Site.**

GHD | Report for EOG | 11228405



## Site Photograph

### EOG Jackson B #33 Release Site.

GHD | Report for EOG | 11228405

# 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](http://clients.hallenvironmental.com)

May 11, 2021

Tom Larson

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX:

RE: Jackson B 33

OrderNo.: 2105147

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 8 sample(s) on 5/5/2021 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](http://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 white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109



## Analytical Report

Lab Order: 2105147

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/11/2021

**CLIENT:** GHD **Lab Order:** 2105147  
**Project:** Jackson B 33

**Lab ID:** 2105147-001 **Collection Date:** 5/3/2021 1:40:00 PM  
**Client Sample ID:** HA1-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	3900	150		mg/Kg	50	5/7/2021 9:17:08 AM	59840
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/5/2021 5:09:47 PM	59826
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/5/2021 5:09:47 PM	59826
Surr: DNOP	85.2	70-130		%Rec	1	5/5/2021 5:09:47 PM	59826
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/6/2021 8:44:34 PM	59822
Surr: BFB	94.2	70-130		%Rec	1	5/6/2021 8:44:34 PM	59822
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	5/6/2021 8:44:34 PM	59822
Toluene	ND	0.047		mg/Kg	1	5/6/2021 8:44:34 PM	59822
Ethylbenzene	ND	0.047		mg/Kg	1	5/6/2021 8:44:34 PM	59822
Xylenes, Total	ND	0.093		mg/Kg	1	5/6/2021 8:44:34 PM	59822
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	5/6/2021 8:44:34 PM	59822

**Lab ID:** 2105147-002 **Collection Date:** 5/3/2021 1:45:00 PM  
**Client Sample ID:** HA1-4 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	4400	150		mg/Kg	50	5/7/2021 9:29:33 AM	59840
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/5/2021 5:19:36 PM	59826
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/5/2021 5:19:36 PM	59826
Surr: DNOP	90.4	70-130		%Rec	1	5/5/2021 5:19:36 PM	59826
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/6/2021 9:55:19 PM	59822
Surr: BFB	89.9	70-130		%Rec	1	5/6/2021 9:55:19 PM	59822
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	5/6/2021 9:55:19 PM	59822
Toluene	ND	0.049		mg/Kg	1	5/6/2021 9:55:19 PM	59822
Ethylbenzene	ND	0.049		mg/Kg	1	5/6/2021 9:55:19 PM	59822
Xylenes, Total	ND	0.097		mg/Kg	1	5/6/2021 9:55:19 PM	59822
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/6/2021 9:55:19 PM	59822

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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: 2105147

Date Reported: 5/11/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Lab Order:** 2105147

**Project:** Jackson B 33

**Lab ID:** 2105147-003

**Collection Date:** 5/3/2021 1:50:00 PM

**Client Sample ID:** HA2-2

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	2000	61		mg/Kg	20	5/6/2021 2:50:12 PM	59840
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	16	9.8		mg/Kg	1	5/6/2021 9:02:43 AM	59826
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/6/2021 9:02:43 AM	59826
Surr: DNOP	117	70-130		%Rec	1	5/6/2021 9:02:43 AM	59826
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	5/6/2021 10:18:41 PM	59822
Surr: BFB	90.9	70-130		%Rec	1	5/6/2021 10:18:41 PM	59822
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	5/6/2021 10:18:41 PM	59822
Toluene	ND	0.046		mg/Kg	1	5/6/2021 10:18:41 PM	59822
Ethylbenzene	ND	0.046		mg/Kg	1	5/6/2021 10:18:41 PM	59822
Xylenes, Total	ND	0.093		mg/Kg	1	5/6/2021 10:18:41 PM	59822
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/6/2021 10:18:41 PM	59822

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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: 2105147

Date Reported: 5/11/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD **Lab Order:** 2105147  
**Project:** Jackson B 33

**Lab ID:** 2105147-004 **Collection Date:** 5/3/2021 1:55:00 PM  
**Client Sample ID:** HA2-4 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	630	59		mg/Kg	20	5/6/2021 3:52:13 PM	59851
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	5/5/2021 5:29:29 PM	59826
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	5/5/2021 5:29:29 PM	59826
Surr: DNOP	95.6	70-130		%Rec	1	5/5/2021 5:29:29 PM	59826
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/6/2021 10:42:04 PM	59822
Surr: BFB	92.0	70-130		%Rec	1	5/6/2021 10:42:04 PM	59822
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/6/2021 10:42:04 PM	59822
Toluene	ND	0.049		mg/Kg	1	5/6/2021 10:42:04 PM	59822
Ethylbenzene	ND	0.049		mg/Kg	1	5/6/2021 10:42:04 PM	59822
Xylenes, Total	ND	0.098		mg/Kg	1	5/6/2021 10:42:04 PM	59822
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/6/2021 10:42:04 PM	59822

**Lab ID:** 2105147-005 **Collection Date:** 5/3/2021 2:00:00 PM  
**Client Sample ID:** HA3-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	230	60		mg/Kg	20	5/6/2021 4:04:37 PM	59851
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/5/2021 5:39:22 PM	59826
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/5/2021 5:39:22 PM	59826
Surr: DNOP	94.9	70-130		%Rec	1	5/5/2021 5:39:22 PM	59826
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/6/2021 11:05:30 PM	59822
Surr: BFB	93.6	70-130		%Rec	1	5/6/2021 11:05:30 PM	59822
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	5/6/2021 11:05:30 PM	59822
Toluene	ND	0.048		mg/Kg	1	5/6/2021 11:05:30 PM	59822
Ethylbenzene	ND	0.048		mg/Kg	1	5/6/2021 11:05:30 PM	59822
Xylenes, Total	ND	0.096		mg/Kg	1	5/6/2021 11:05:30 PM	59822
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	5/6/2021 11:05:30 PM	59822

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

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation 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: 2105147

Date Reported: 5/11/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Lab Order:** 2105147

**Project:** Jackson B 33

**Lab ID:** 2105147-006

**Collection Date:** 5/3/2021 2:05:00 PM

**Client Sample ID:** HA3-4

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	250	60		mg/Kg	20	5/6/2021 4:17:02 PM	59851
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/5/2021 5:49:21 PM	59826
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/5/2021 5:49:21 PM	59826
Surr: DNOP	102	70-130		%Rec	1	5/5/2021 5:49:21 PM	59826
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/6/2021 11:29:01 PM	59822
Surr: BFB	93.3	70-130		%Rec	1	5/6/2021 11:29:01 PM	59822
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	5/6/2021 11:29:01 PM	59822
Toluene	ND	0.048		mg/Kg	1	5/6/2021 11:29:01 PM	59822
Ethylbenzene	ND	0.048		mg/Kg	1	5/6/2021 11:29:01 PM	59822
Xylenes, Total	ND	0.096		mg/Kg	1	5/6/2021 11:29:01 PM	59822
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	5/6/2021 11:29:01 PM	59822

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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: 2105147

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/11/2021

**CLIENT:** GHD **Lab Order:** 2105147  
**Project:** Jackson B 33

**Lab ID:** 2105147-007 **Collection Date:** 5/3/2021 2:10:00 PM  
**Client Sample ID:** HA4-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	1100	60		mg/Kg	20	5/6/2021 4:29:26 PM	59851
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/5/2021 8:09:05 PM	59826
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/5/2021 8:09:05 PM	59826
Surr: DNOP	90.7	70-130		%Rec	1	5/5/2021 8:09:05 PM	59826
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/6/2021 11:52:27 PM	59822
Surr: BFB	92.1	70-130		%Rec	1	5/6/2021 11:52:27 PM	59822
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	5/6/2021 11:52:27 PM	59822
Toluene	ND	0.049		mg/Kg	1	5/6/2021 11:52:27 PM	59822
Ethylbenzene	ND	0.049		mg/Kg	1	5/6/2021 11:52:27 PM	59822
Xylenes, Total	ND	0.098		mg/Kg	1	5/6/2021 11:52:27 PM	59822
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/6/2021 11:52:27 PM	59822

**Lab ID:** 2105147-008 **Collection Date:** 5/3/2021 2:15:00 PM  
**Client Sample ID:** HA4-4 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	870	61		mg/Kg	20	5/6/2021 4:41:51 PM	59851
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/5/2021 5:59:25 PM	59826
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/5/2021 5:59:25 PM	59826
Surr: DNOP	86.9	70-130		%Rec	1	5/5/2021 5:59:25 PM	59826
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/7/2021 12:16:00 AM	59822
Surr: BFB	91.7	70-130		%Rec	1	5/7/2021 12:16:00 AM	59822
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	5/7/2021 12:16:00 AM	59822
Toluene	ND	0.048		mg/Kg	1	5/7/2021 12:16:00 AM	59822
Ethylbenzene	ND	0.048		mg/Kg	1	5/7/2021 12:16:00 AM	59822
Xylenes, Total	ND	0.097		mg/Kg	1	5/7/2021 12:16:00 AM	59822
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/7/2021 12:16:00 AM	59822

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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: 2105147

Date Reported: 5/11/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Lab Order:** 2105147

**Project:** Jackson B 33

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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#: 2105147

11-May-21

**Client:** GHD  
**Project:** Jackson B 33

Sample ID: <b>MB-59840</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>59840</b>	RunNo: <b>77183</b>								
Prep Date: <b>5/6/2021</b>	Analysis Date: <b>5/6/2021</b>	SeqNo: <b>2737988</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-59840</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>59840</b>	RunNo: <b>77183</b>								
Prep Date: <b>5/6/2021</b>	Analysis Date: <b>5/6/2021</b>	SeqNo: <b>2737989</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.5	90	110			

Sample ID: <b>MB-59851</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>59851</b>	RunNo: <b>77183</b>								
Prep Date: <b>5/6/2021</b>	Analysis Date: <b>5/6/2021</b>	SeqNo: <b>2738022</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-59851</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>59851</b>	RunNo: <b>77183</b>								
Prep Date: <b>5/6/2021</b>	Analysis Date: <b>5/6/2021</b>	SeqNo: <b>2738023</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.2	90	110			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2105147

11-May-21

**Client:** GHD  
**Project:** Jackson B 33

Sample ID: <b>MB-59826</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>59826</b>	RunNo: <b>77152</b>								
Prep Date: <b>5/5/2021</b>	Analysis Date: <b>5/5/2021</b>	SeqNo: <b>2736833</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.3	70	130			

Sample ID: <b>LCS-59826</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>59826</b>	RunNo: <b>77152</b>								
Prep Date: <b>5/5/2021</b>	Analysis Date: <b>5/5/2021</b>	SeqNo: <b>2736835</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.5	68.9	141			
Surr: DNOP	4.6		5.000		91.8	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
- 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#: 2105147

11-May-21

**Client:** GHD  
**Project:** Jackson B 33

Sample ID: <b>MB-59822</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>59822</b>	RunNo: <b>77197</b>								
Prep Date: <b>5/5/2021</b>	Analysis Date: <b>5/6/2021</b>	SeqNo: <b>2737863</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		92.0	70	130			

Sample ID: <b>LCS-59822</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>59822</b>	RunNo: <b>77197</b>								
Prep Date: <b>5/5/2021</b>	Analysis Date: <b>5/6/2021</b>	SeqNo: <b>2737864</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.0	78.6	131			
Surr: BFB	1000		1000		102	70	130			

Sample ID: <b>mb-59845</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>59845</b>	RunNo: <b>77243</b>								
Prep Date: <b>5/6/2021</b>	Analysis Date: <b>5/8/2021</b>	SeqNo: <b>2739198</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		93.6	70	130			

Sample ID: <b>ics-59845</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>59845</b>	RunNo: <b>77243</b>								
Prep Date: <b>5/6/2021</b>	Analysis Date: <b>5/7/2021</b>	SeqNo: <b>2739199</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		104	70	130			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2105147

11-May-21

**Client:** GHD  
**Project:** Jackson B 33

Sample ID: <b>MB-59822</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>59822</b>	RunNo: <b>77197</b>								
Prep Date: <b>5/5/2021</b>	Analysis Date: <b>5/6/2021</b>	SeqNo: <b>2737911</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: <b>LCS-59822</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>59822</b>	RunNo: <b>77197</b>								
Prep Date: <b>5/5/2021</b>	Analysis Date: <b>5/6/2021</b>	SeqNo: <b>2737912</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.3	80	120			
Toluene	0.98	0.050	1.000	0	97.6	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.9	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Sample ID: <b>2105147-001ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>HA1-2</b>	Batch ID: <b>59822</b>	RunNo: <b>77197</b>								
Prep Date: <b>5/5/2021</b>	Analysis Date: <b>5/6/2021</b>	SeqNo: <b>2737915</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9881	0	105	76.3	120			
Toluene	1.1	0.049	0.9881	0	110	78.5	120			
Ethylbenzene	1.1	0.049	0.9881	0	112	78.1	124			
Xylenes, Total	3.3	0.099	2.964	0	112	79.3	125			
Surr: 4-Bromofluorobenzene	1.0		0.9881		103	70	130			

Sample ID: <b>2105147-001amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>HA1-2</b>	Batch ID: <b>59822</b>	RunNo: <b>77197</b>								
Prep Date: <b>5/5/2021</b>	Analysis Date: <b>5/6/2021</b>	SeqNo: <b>2737916</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.024	0.9461	0	102	80	120	6.98	20	
Toluene	1.0	0.047	0.9461	0	108	80	120	6.39	20	
Ethylbenzene	1.0	0.047	0.9461	0	109	80	120	6.60	20	
Xylenes, Total	3.1	0.095	2.838	0	111	80	120	5.32	20	
Surr: 4-Bromofluorobenzene	0.98		0.9461		103	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#: 2105147

11-May-21

**Client:** GHD  
**Project:** Jackson B 33

Sample ID: <b>mb-59845</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>59845</b>	RunNo: <b>77243</b>								
Prep Date: <b>5/6/2021</b>	Analysis Date: <b>5/8/2021</b>	SeqNo: <b>2739254</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Sample ID: <b>LCS-59845</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>59845</b>	RunNo: <b>77243</b>								
Prep Date: <b>5/6/2021</b>	Analysis Date: <b>5/7/2021</b>	SeqNo: <b>2739255</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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 Work Order Number: 2105147 RcptNo: 1

Received By: Juan Rojas 5/5/2021 7:25:00 AM
Completed By: Desiree Dominguez 5/5/2021 8:35:40 AM
Reviewed By: jr 5/5/21

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? 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: 5/5/21
(<=2 or >12 unless noted)
Adjusted?
Checked by:

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [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, 3.3, Good, [ ], [ ], [ ]

### Chain-of-Custody Record

Client: GHD

Mailing Address:  
324 W. Main St. Suite 108, Artesia, NM 88201  
 Phone #: (505) 377-4218  
 email or Fax#: Chase.Settle@cedarsettle.com  
 QA/QC Package: Zach.combo@GHD.com  
 Standard  Level 4 (Full Validation)

Accreditation:  AZ Compliance  
 NELAC  Other  
 EDD (Type)

Turn-Around Time:  
 Standard  Rush S=Day

Project Name:  
Jackson B 33

Project #:  
1199419

Project Manager: Becky Haskell  
Tom Larson

Sampler: Zach Combo

On Ice:  Yes  No

# of Coolers: 1

Cooler Temp (including CF): 3.3-0.5-3.3 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
5/3/21	1340	S	HA1-2	Stew		2105147
	1345		HA1-4			-001
	1350		HA2-2			-002
	1355		HA2-4			-003
	1400		HA3-2			-004
	1405		HA3-4			-005
	1410		HA4-2			-006
	1415		HA4-4			-007
						-008



### 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 / TMBs (8021)	<input checked="" type="checkbox"/> PH:8015D(GRO / DRO / MRO)	<input type="checkbox"/> 8081 Pesticides/8082 PCBs	<input type="checkbox"/> EDB (Method 504.1)	<input type="checkbox"/> PAHs by 8310 or 8270SIMS	<input type="checkbox"/> RCRA 8 Metals	<input type="checkbox"/> Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	<input type="checkbox"/> 8260 (VOA)	<input type="checkbox"/> 8270 (Semi-VOA)	<input type="checkbox"/> Total Coliform (Present/Absent)	<u>Chloride Method 500</u>
---	---	--	---	---	--	---	-------------------------------------	--	--	----------------------------

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

Direct bill to EOG Chase Settle

Relinquished by: Zach Combo / J.C. Date: 5/4/21 Time: 12:50

Relinquished by: acummg Date: 5/4/21 Time: 19:00

Received by: acummg Date: 5/4/21 Time: 18:30

Received by: acummg Date: 5/18/21 Time: 7:25



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

June 02, 2021

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

RE: Jackson B 33

OrderNo.: 2105A87

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 16 sample(s) on 5/26/2021 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](http://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 white background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order: 2105A87

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/2/2021

**CLIENT:** GHD **Lab Order:** 2105A87  
**Project:** Jackson B 33

**Lab ID:** 2105A87-001 **Collection Date:** 5/24/2021 7:30:00 AM  
**Client Sample ID:** TP1-S **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	2300	150		mg/Kg	50	5/29/2021 2:08:24 PM	60336
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	210	8.9		mg/Kg	1	5/28/2021 12:25:56 PM	60287
Motor Oil Range Organics (MRO)	500	44		mg/Kg	1	5/28/2021 12:25:56 PM	60287
Surr: DNOP	92.7	70-130		%Rec	1	5/28/2021 12:25:56 PM	60287
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/27/2021 8:37:08 PM	60281
Surr: BFB	99.4	70-130		%Rec	1	5/27/2021 8:37:08 PM	60281
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	5/27/2021 8:37:08 PM	60281
Toluene	ND	0.047		mg/Kg	1	5/27/2021 8:37:08 PM	60281
Ethylbenzene	ND	0.047		mg/Kg	1	5/27/2021 8:37:08 PM	60281
Xylenes, Total	ND	0.093		mg/Kg	1	5/27/2021 8:37:08 PM	60281
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/27/2021 8:37:08 PM	60281

**Lab ID:** 2105A87-002 **Collection Date:** 5/24/2021 7:35:00 AM  
**Client Sample ID:** TP1-2 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	170	60		mg/Kg	20	5/29/2021 12:57:47 AM	60336
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	51	9.6		mg/Kg	1	5/28/2021 11:46:19 AM	60287
Motor Oil Range Organics (MRO)	120	48		mg/Kg	1	5/28/2021 11:46:19 AM	60287
Surr: DNOP	95.7	70-130		%Rec	1	5/28/2021 11:46:19 AM	60287
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/27/2021 9:00:38 PM	60281
Surr: BFB	98.1	70-130		%Rec	1	5/27/2021 9:00:38 PM	60281
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/27/2021 9:00:38 PM	60281
Toluene	ND	0.050		mg/Kg	1	5/27/2021 9:00:38 PM	60281
Ethylbenzene	ND	0.050		mg/Kg	1	5/27/2021 9:00:38 PM	60281
Xylenes, Total	ND	0.099		mg/Kg	1	5/27/2021 9:00:38 PM	60281
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	5/27/2021 9:00:38 PM	60281

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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: 2105A87

Date Reported: 6/2/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Lab Order:** 2105A87

**Project:** Jackson B 33

**Lab ID:** 2105A87-003

**Collection Date:** 5/24/2021 7:40:00 AM

**Client Sample ID:** TP2-S

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	5/29/2021 1:10:12 AM	60336
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	5/27/2021 3:07:23 PM	60287
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	5/27/2021 3:07:23 PM	60287
Surr: DNOP	99.8	70-130		%Rec	1	5/27/2021 3:07:23 PM	60287
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/27/2021 9:24:04 PM	60281
Surr: BFB	100	70-130		%Rec	1	5/27/2021 9:24:04 PM	60281
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	5/27/2021 9:24:04 PM	60281
Toluene	ND	0.047		mg/Kg	1	5/27/2021 9:24:04 PM	60281
Ethylbenzene	ND	0.047		mg/Kg	1	5/27/2021 9:24:04 PM	60281
Xylenes, Total	ND	0.093		mg/Kg	1	5/27/2021 9:24:04 PM	60281
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/27/2021 9:24:04 PM	60281

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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: 2105A87

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/2/2021

**CLIENT:** GHD **Lab Order:** 2105A87  
**Project:** Jackson B 33

**Lab ID:** 2105A87-004 **Collection Date:** 5/24/2021 7:50:00 AM  
**Client Sample ID:** TP3-4 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	1600	60		mg/Kg	20	5/29/2021 1:22:36 AM	60336
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	93	9.5		mg/Kg	1	5/28/2021 1:05:59 PM	60287
Motor Oil Range Organics (MRO)	130	48		mg/Kg	1	5/28/2021 1:05:59 PM	60287
Surr: DNOP	92.3	70-130		%Rec	1	5/28/2021 1:05:59 PM	60287
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/27/2021 9:47:35 PM	60281
Surr: BFB	101	70-130		%Rec	1	5/27/2021 9:47:35 PM	60281
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/27/2021 9:47:35 PM	60281
Toluene	ND	0.050		mg/Kg	1	5/27/2021 9:47:35 PM	60281
Ethylbenzene	ND	0.050		mg/Kg	1	5/27/2021 9:47:35 PM	60281
Xylenes, Total	ND	0.10		mg/Kg	1	5/27/2021 9:47:35 PM	60281
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/27/2021 9:47:35 PM	60281

**Lab ID:** 2105A87-005 **Collection Date:** 5/24/2021 8:15:00 AM  
**Client Sample ID:** TP3-12 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	1600	60		mg/Kg	20	5/29/2021 1:35:00 AM	60336
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	5/27/2021 3:17:18 PM	60287
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	5/27/2021 3:17:18 PM	60287
Surr: DNOP	107	70-130		%Rec	1	5/27/2021 3:17:18 PM	60287
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/27/2021 10:11:17 PM	60281
Surr: BFB	99.0	70-130		%Rec	1	5/27/2021 10:11:17 PM	60281
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/27/2021 10:11:17 PM	60281
Toluene	ND	0.050		mg/Kg	1	5/27/2021 10:11:17 PM	60281
Ethylbenzene	ND	0.050		mg/Kg	1	5/27/2021 10:11:17 PM	60281
Xylenes, Total	ND	0.10		mg/Kg	1	5/27/2021 10:11:17 PM	60281
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/27/2021 10:11:17 PM	60281

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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: 2105A87

Date Reported: 6/2/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Lab Order:** 2105A87

**Project:** Jackson B 33

**Lab ID:** 2105A87-006

**Collection Date:** 5/24/2021 8:20:00 AM

**Client Sample ID:** TP3-14

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	600	60		mg/Kg	20	5/29/2021 2:12:13 AM	60336
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.3		mg/Kg	1	5/27/2021 3:27:09 PM	60287
Motor Oil Range Organics (MRO)	ND	41		mg/Kg	1	5/27/2021 3:27:09 PM	60287
Surr: DNOP	118	70-130		%Rec	1	5/27/2021 3:27:09 PM	60287
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/27/2021 10:35:05 PM	60281
Surr: BFB	98.7	70-130		%Rec	1	5/27/2021 10:35:05 PM	60281
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/27/2021 10:35:05 PM	60281
Toluene	ND	0.050		mg/Kg	1	5/27/2021 10:35:05 PM	60281
Ethylbenzene	ND	0.050		mg/Kg	1	5/27/2021 10:35:05 PM	60281
Xylenes, Total	ND	0.10		mg/Kg	1	5/27/2021 10:35:05 PM	60281
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	5/27/2021 10:35:05 PM	60281

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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: 2105A87

Date Reported: 6/2/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Lab Order:** 2105A87

**Project:** Jackson B 33

**Lab ID:** 2105A87-007

**Collection Date:** 5/24/2021 8:40:00 AM

**Client Sample ID:** TP4-2

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	890	60		mg/Kg	20	5/29/2021 2:24:37 AM	60336
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/27/2021 3:36:59 PM	60287
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	5/27/2021 3:36:59 PM	60287
Surr: DNOP	116	70-130		%Rec	1	5/27/2021 3:36:59 PM	60287
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/27/2021 11:46:16 PM	60281
Surr: BFB	100	70-130		%Rec	1	5/27/2021 11:46:16 PM	60281
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	5/27/2021 11:46:16 PM	60281
Toluene	ND	0.049		mg/Kg	1	5/27/2021 11:46:16 PM	60281
Ethylbenzene	ND	0.049		mg/Kg	1	5/27/2021 11:46:16 PM	60281
Xylenes, Total	ND	0.098		mg/Kg	1	5/27/2021 11:46:16 PM	60281
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	5/27/2021 11:46:16 PM	60281

**Lab ID:** 2105A87-008

**Collection Date:** 5/24/2021 8:50:00 AM

**Client Sample ID:** TP5-2

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	1100	60		mg/Kg	20	5/29/2021 2:37:02 AM	60336
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	5/27/2021 3:46:53 PM	60287
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	5/27/2021 3:46:53 PM	60287
Surr: DNOP	106	70-130		%Rec	1	5/27/2021 3:46:53 PM	60287
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/28/2021 12:09:53 AM	60281
Surr: BFB	99.6	70-130		%Rec	1	5/28/2021 12:09:53 AM	60281
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	5/28/2021 12:09:53 AM	60281
Toluene	ND	0.047		mg/Kg	1	5/28/2021 12:09:53 AM	60281
Ethylbenzene	ND	0.047		mg/Kg	1	5/28/2021 12:09:53 AM	60281
Xylenes, Total	ND	0.094		mg/Kg	1	5/28/2021 12:09:53 AM	60281
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/28/2021 12:09:53 AM	60281

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

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation 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: 2105A87

Date Reported: 6/2/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Lab Order:** 2105A87

**Project:** Jackson B 33

**Lab ID:** 2105A87-009

**Collection Date:** 5/24/2021 8:55:00 AM

**Client Sample ID:** TP5-4

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
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**EPA METHOD 300.0: ANIONS**

Analyst: **VP**

Chloride	1200	60		mg/Kg	20	5/29/2021 2:49:26 AM	60336
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**EPA METHOD 8015M/D: DIESEL RANGE ORGANICS**

Analyst: **SB**

Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	5/27/2021 3:56:45 PM	60287
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	5/27/2021 3:56:45 PM	60287
Surr: DNOP	115	70-130		%Rec	1	5/27/2021 3:56:45 PM	60287

**EPA METHOD 8015D: GASOLINE RANGE**

Analyst: **NSB**

Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/28/2021 12:33:31 AM	60281
Surr: BFB	99.0	70-130		%Rec	1	5/28/2021 12:33:31 AM	60281

**EPA METHOD 8021B: VOLATILES**

Analyst: **NSB**

Benzene	ND	0.025		mg/Kg	1	5/28/2021 12:33:31 AM	60281
Toluene	ND	0.050		mg/Kg	1	5/28/2021 12:33:31 AM	60281
Ethylbenzene	ND	0.050		mg/Kg	1	5/28/2021 12:33:31 AM	60281
Xylenes, Total	ND	0.10		mg/Kg	1	5/28/2021 12:33:31 AM	60281
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/28/2021 12:33:31 AM	60281

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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: 2105A87

Date Reported: 6/2/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Lab Order:** 2105A87

**Project:** Jackson B 33

**Lab ID:** 2105A87-010

**Collection Date:** 5/24/2021 9:35:00 AM

**Client Sample ID:** TP5-14

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	2800	150		mg/Kg	50	5/29/2021 2:20:49 PM	60336
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	5/27/2021 4:06:33 PM	60287
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/27/2021 4:06:33 PM	60287
Surr: DNOP	112	70-130		%Rec	1	5/27/2021 4:06:33 PM	60287
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/28/2021 12:57:11 AM	60281
Surr: BFB	99.9	70-130		%Rec	1	5/28/2021 12:57:11 AM	60281
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/28/2021 12:57:11 AM	60281
Toluene	ND	0.049		mg/Kg	1	5/28/2021 12:57:11 AM	60281
Ethylbenzene	ND	0.049		mg/Kg	1	5/28/2021 12:57:11 AM	60281
Xylenes, Total	ND	0.098		mg/Kg	1	5/28/2021 12:57:11 AM	60281
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/28/2021 12:57:11 AM	60281

**Lab ID:** 2105A87-011

**Collection Date:** 5/24/2021 9:40:00 AM

**Client Sample ID:** TP6-S

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	490	60		mg/Kg	20	5/29/2021 3:14:15 AM	60336
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	13	9.2		mg/Kg	1	5/28/2021 12:52:41 PM	60287
Motor Oil Range Organics (MRO)	140	46		mg/Kg	1	5/28/2021 12:52:41 PM	60287
Surr: DNOP	84.0	70-130		%Rec	1	5/28/2021 12:52:41 PM	60287
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/28/2021 1:21:00 AM	60281
Surr: BFB	98.9	70-130		%Rec	1	5/28/2021 1:21:00 AM	60281
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	5/28/2021 1:21:00 AM	60281
Toluene	ND	0.047		mg/Kg	1	5/28/2021 1:21:00 AM	60281
Ethylbenzene	ND	0.047		mg/Kg	1	5/28/2021 1:21:00 AM	60281
Xylenes, Total	ND	0.094		mg/Kg	1	5/28/2021 1:21:00 AM	60281
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/28/2021 1:21:00 AM	60281

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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: 2105A87

Date Reported: 6/2/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD  
**Project:** Jackson B 33

**Lab Order:** 2105A87

**Lab ID:** 2105A87-012

**Collection Date:** 5/24/2021 9:45:00 AM

**Client Sample ID:** TP6-2

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	730	60		mg/Kg	20	5/29/2021 3:26:40 AM	60336
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	30	8.7		mg/Kg	1	5/28/2021 11:59:27 AM	60287
Motor Oil Range Organics (MRO)	220	43		mg/Kg	1	5/28/2021 11:59:27 AM	60287
Surr: DNOP	82.8	70-130		%Rec	1	5/28/2021 11:59:27 AM	60287
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/28/2021 1:44:50 AM	60281
Surr: BFB	98.8	70-130		%Rec	1	5/28/2021 1:44:50 AM	60281
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	5/28/2021 1:44:50 AM	60281
Toluene	ND	0.049		mg/Kg	1	5/28/2021 1:44:50 AM	60281
Ethylbenzene	ND	0.049		mg/Kg	1	5/28/2021 1:44:50 AM	60281
Xylenes, Total	ND	0.098		mg/Kg	1	5/28/2021 1:44:50 AM	60281
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	5/28/2021 1:44:50 AM	60281

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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: 2105A87

Date Reported: 6/2/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD **Lab Order:** 2105A87  
**Project:** Jackson B 33

**Lab ID:** 2105A87-013 **Collection Date:** 5/24/2021 9:50:00 AM  
**Client Sample ID:** TP7-4 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	930	60		mg/Kg	20	5/29/2021 3:39:04 AM	60336
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	5/27/2021 4:16:21 PM	60287
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	5/27/2021 4:16:21 PM	60287
Surr: DNOP	124	70-130		%Rec	1	5/27/2021 4:16:21 PM	60287
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/28/2021 2:08:33 AM	60281
Surr: BFB	99.0	70-130		%Rec	1	5/28/2021 2:08:33 AM	60281
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/28/2021 2:08:33 AM	60281
Toluene	ND	0.049		mg/Kg	1	5/28/2021 2:08:33 AM	60281
Ethylbenzene	ND	0.049		mg/Kg	1	5/28/2021 2:08:33 AM	60281
Xylenes, Total	ND	0.098		mg/Kg	1	5/28/2021 2:08:33 AM	60281
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/28/2021 2:08:33 AM	60281

**Lab ID:** 2105A87-014 **Collection Date:** 5/24/2021 10:00:00 AM  
**Client Sample ID:** TP8-S **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	110	60		mg/Kg	20	6/1/2021 2:35:01 PM	60357
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/27/2021 4:26:11 PM	60287
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/27/2021 4:26:11 PM	60287
Surr: DNOP	106	70-130		%Rec	1	5/27/2021 4:26:11 PM	60287
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/28/2021 2:32:18 AM	60281
Surr: BFB	98.0	70-130		%Rec	1	5/28/2021 2:32:18 AM	60281
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/28/2021 2:32:18 AM	60281
Toluene	ND	0.050		mg/Kg	1	5/28/2021 2:32:18 AM	60281
Ethylbenzene	ND	0.050		mg/Kg	1	5/28/2021 2:32:18 AM	60281
Xylenes, Total	ND	0.10		mg/Kg	1	5/28/2021 2:32:18 AM	60281
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	5/28/2021 2:32:18 AM	60281

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

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation 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: 2105A87

Date Reported: 6/2/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD  
**Project:** Jackson B 33

**Lab Order:** 2105A87

**Lab ID:** 2105A87-015

**Collection Date:** 5/24/2021 10:05:00 AM

**Client Sample ID:** TP8-2

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	290	60		mg/Kg	20	6/1/2021 2:47:26 PM	60357
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	5/27/2021 4:35:58 PM	60287
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	5/27/2021 4:35:58 PM	60287
Surr: DNOP	118	70-130		%Rec	1	5/27/2021 4:35:58 PM	60287
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/28/2021 2:56:01 AM	60281
Surr: BFB	99.9	70-130		%Rec	1	5/28/2021 2:56:01 AM	60281
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	5/28/2021 2:56:01 AM	60281
Toluene	ND	0.050		mg/Kg	1	5/28/2021 2:56:01 AM	60281
Ethylbenzene	ND	0.050		mg/Kg	1	5/28/2021 2:56:01 AM	60281
Xylenes, Total	ND	0.10		mg/Kg	1	5/28/2021 2:56:01 AM	60281
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	5/28/2021 2:56:01 AM	60281

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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: 2105A87

Date Reported: 6/2/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD  
**Project:** Jackson B 33

**Lab Order:** 2105A87

**Lab ID:** 2105A87-016

**Collection Date:** 5/25/2021 7:50:00 AM

**Client Sample ID:** TP5-20

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	2100	60		mg/Kg	20	6/1/2021 3:24:39 PM	60357
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/27/2021 4:45:42 PM	60287
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	5/27/2021 4:45:42 PM	60287
Surr: DNOP	114	70-130		%Rec	1	5/27/2021 4:45:42 PM	60287
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/28/2021 3:19:50 AM	60281
Surr: BFB	100	70-130		%Rec	1	5/28/2021 3:19:50 AM	60281
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	5/28/2021 3:19:50 AM	60281
Toluene	ND	0.047		mg/Kg	1	5/28/2021 3:19:50 AM	60281
Ethylbenzene	ND	0.047		mg/Kg	1	5/28/2021 3:19:50 AM	60281
Xylenes, Total	ND	0.095		mg/Kg	1	5/28/2021 3:19:50 AM	60281
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/28/2021 3:19:50 AM	60281

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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#: 2105A87

02-Jun-21

**Client:** GHD  
**Project:** Jackson B 33

Sample ID: <b>MB-60336</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>60336</b>	RunNo: <b>77726</b>								
Prep Date: <b>5/28/2021</b>	Analysis Date: <b>5/28/2021</b>	SeqNo: <b>2760740</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-60336</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>60336</b>	RunNo: <b>77726</b>								
Prep Date: <b>5/28/2021</b>	Analysis Date: <b>5/28/2021</b>	SeqNo: <b>2760741</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.6	90	110			

Sample ID: <b>MB-60357</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>60357</b>	RunNo: <b>78785</b>								
Prep Date: <b>6/1/2021</b>	Analysis Date: <b>6/1/2021</b>	SeqNo: <b>2762658</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-60357</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>60357</b>	RunNo: <b>78785</b>								
Prep Date: <b>6/1/2021</b>	Analysis Date: <b>6/1/2021</b>	SeqNo: <b>2762659</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.5	90	110			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2105A87

02-Jun-21

**Client:** GHD  
**Project:** Jackson B 33

Sample ID: <b>MB-60287</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>60287</b>	RunNo: <b>77689</b>								
Prep Date: <b>5/26/2021</b>	Analysis Date: <b>5/27/2021</b>	SeqNo: <b>2758381</b>	Units: <b>mg/Kg</b>							
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		111	70	130			

Sample ID: <b>LCS-60287</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>60287</b>	RunNo: <b>77689</b>								
Prep Date: <b>5/26/2021</b>	Analysis Date: <b>5/27/2021</b>	SeqNo: <b>2758383</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	10	50.00	0	118	68.9	141			
Surr: DNOP	6.0		5.000		121	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#: 2105A87

02-Jun-21

**Client:** GHD  
**Project:** Jackson B 33

Sample ID: <b>mb-60281</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>60281</b>	RunNo: <b>77699</b>								
Prep Date: <b>5/26/2021</b>	Analysis Date: <b>5/27/2021</b>	SeqNo: <b>2758755</b>	Units: <b>mg/Kg</b>							
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: <b>ics-60281</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>60281</b>	RunNo: <b>77699</b>								
Prep Date: <b>5/26/2021</b>	Analysis Date: <b>5/27/2021</b>	SeqNo: <b>2758756</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	78.6	131			
Surr: BFB	1100		1000		112	70	130			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2105A87

02-Jun-21

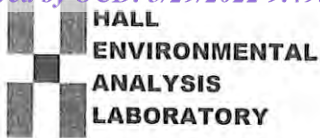
**Client:** GHD  
**Project:** Jackson B 33

Sample ID: <b>mb-60281</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>60281</b>	RunNo: <b>77699</b>								
Prep Date: <b>5/26/2021</b>	Analysis Date: <b>5/27/2021</b>	SeqNo: <b>2758801</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Sample ID: <b>LCS-60281</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>60281</b>	RunNo: <b>77699</b>								
Prep Date: <b>5/26/2021</b>	Analysis Date: <b>5/27/2021</b>	SeqNo: <b>2758802</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	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 Work Order Number: 2105A87 RcptNo: 1

Received By: Juan Rojas 5/26/2021 7:30:00 AM
Completed By: Cheyenne Cason 5/26/2021 7:53:05 AM
Reviewed By: SPA 5.26.21

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? 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: IO 5.26.21 (<2 or >12 unless noted) Adjusted? Checked by:

Special Handling (if applicable)

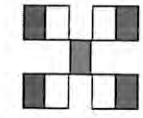
- 15. Was client notified of all discrepancies with this order? Yes [ ] No [ ] NA [checked]

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, 5.4, Good, [ ], [ ], [ ]



# HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

Turn-Around Time:  Standard  Rush

Project Name: Jackson B #33

Project #: 1228405

Project Manager: Tom Larson, Becky Haskell

Sampler: Zach Comino

On Ice:  Yes  No

# of Coolers: 1

Cooler Temp (including CF): 5.5 (4.1-5.4°C)

Container Type and #: Jar

Preservative Type: HEAL No. 2105487

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

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

Date	Time	Matrix	Sample Name	HEAL No.	Relinquished by:	Relinquished by:	Date	Time
05/21	0750	S	TP1-S	001			5/25/21	0900
	0755		TP1-2	002				
	0740		TP2-S	003				
	0750		TP3-4	004				
	0815		TP3-12	005				
	0820		TP3-14	006				
	0840		TP4-2	007				
	0850		TP5-2	008				
	0855		TP5-4	009				
	0935		TP5-14	010				
05/21	0940		TP6-S	011				
05/20/21	0900		Zach Comino/John					
05/20/21	1900		Zach Comino/John					

### Chain-of-Custody Record

Client: GHD

Mailing Address:  
324 W Main St Suite 108, Artesia, NM 88210  
 Phone #: (505) 577-4218  
 email or Fax#: Becky.Haskell@GHD.com  
 QA/QC Package: Chick - Seattle @ resources.com  
 Standard  Level 4 (Full Validation)

Accreditation:  Az Compliance  
 NELAC  Other  
 EDD (Type)

Turn-Around Time:  
 Standard  Rush 5 Day

Project Name:  
Jackson B #33

Project #:  
11228405

Project Manager:  
Tom Larson  
Becky Haskell

Sampler:  
Zach Comino

On Ice:  Yes  No

# of Coolers: 1

Cooler Temp (including CF): 5.5-0.1554 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
052421	0945		TP6-2			2105A87
	↓		TP7-4			012
	↓		TP8-5			013
	↓		TP8-2			014
	↓		TP5-20			015
052521	0750					016

**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"/> BTX / MTBE / TMBs (8021)	<input checked="" type="checkbox"/> 8081 Pesticides/8082 PCBs	<input checked="" type="checkbox"/> EDB (Method 504.1)	<input type="checkbox"/> PAHs by 8310 or 8270SIMS	<input type="checkbox"/> RCRA 8 Metals	<input type="checkbox"/> Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	<input type="checkbox"/> 8260 (VOA)	<input type="checkbox"/> 8270 (Semi-VOA)	<input type="checkbox"/> Total Coliform (Present/Absent)
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Received by: Zach Comino Date: 5/25/21 Time: 0900  
 Relinquished by: Zach Comino

Received by: Zach Comino Date: 5/25/21 Time: 0900  
 Relinquished by: Zach Comino

Remarks: Please email zach.comino@GHD.com along with others listed above  
Direct bill to EOG Chase Seattle





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

July 09, 2021

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

RE: Jackson B 33

OrderNo.: 2106E76

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 19 sample(s) on 6/29/2021 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](http://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 white background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order: 2106E76

Date Reported: 7/9/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland  
**Project:** Jackson B 33

**Lab Order:** 2106E76

**Lab ID:** 2106E76-001

**Collection Date:** 6/28/2021 8:30:00 AM

**Client Sample ID:** TP9-2

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	760	60		mg/Kg	20	7/3/2021 12:13:56 AM	61106
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/3/2021 8:36:14 PM	61039
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/3/2021 8:36:14 PM	61039
Surr: DNOP	76.4	70-130		%Rec	1	7/3/2021 8:36:14 PM	61039
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/3/2021 5:13:20 AM	61022
Surr: BFB	101	70-130		%Rec	1	7/3/2021 5:13:20 AM	61022
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/3/2021 5:13:20 AM	61022
Toluene	ND	0.048		mg/Kg	1	7/3/2021 5:13:20 AM	61022
Ethylbenzene	ND	0.048		mg/Kg	1	7/3/2021 5:13:20 AM	61022
Xylenes, Total	ND	0.096		mg/Kg	1	7/3/2021 5:13:20 AM	61022
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/3/2021 5:13:20 AM	61022

**Lab ID:** 2106E76-002

**Collection Date:** 6/28/2021 8:35:00 AM

**Client Sample ID:** TP9-4

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	630	60		mg/Kg	20	7/3/2021 1:16:01 AM	61106
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/3/2021 9:00:11 PM	61039
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/3/2021 9:00:11 PM	61039
Surr: DNOP	73.6	70-130		%Rec	1	7/3/2021 9:00:11 PM	61039
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/3/2021 5:36:53 AM	61022
Surr: BFB	100	70-130		%Rec	1	7/3/2021 5:36:53 AM	61022
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	7/3/2021 5:36:53 AM	61022
Toluene	ND	0.046		mg/Kg	1	7/3/2021 5:36:53 AM	61022
Ethylbenzene	ND	0.046		mg/Kg	1	7/3/2021 5:36:53 AM	61022
Xylenes, Total	ND	0.091		mg/Kg	1	7/3/2021 5:36:53 AM	61022
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/3/2021 5:36:53 AM	61022

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

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation 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: 2106E76

Date Reported: 7/9/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Lab Order: 2106E76

Project: Jackson B 33

Lab ID: 2106E76-003

Collection Date: 6/28/2021 8:40:00 AM

Client Sample ID: TP10-S

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	7/3/2021 1:28:26 AM	61106
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/3/2021 9:48:04 PM	61039
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/3/2021 9:48:04 PM	61039
Surr: DNOP	85.6	70-130		%Rec	1	7/3/2021 9:48:04 PM	61039
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/3/2021 6:00:25 AM	61022
Surr: BFB	101	70-130		%Rec	1	7/3/2021 6:00:25 AM	61022
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/3/2021 6:00:25 AM	61022
Toluene	ND	0.048		mg/Kg	1	7/3/2021 6:00:25 AM	61022
Ethylbenzene	ND	0.048		mg/Kg	1	7/3/2021 6:00:25 AM	61022
Xylenes, Total	ND	0.096		mg/Kg	1	7/3/2021 6:00:25 AM	61022
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/3/2021 6:00:25 AM	61022

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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		

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**Analytical Report**

Lab Order: 2106E76

Date Reported: 7/9/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Lab Order:** 2106E76

**Project:** Jackson B 33

**Lab ID:** 2106E76-004

**Collection Date:** 6/28/2021 8:45:00 AM

**Client Sample ID:** TP10-2

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	7/3/2021 1:40:50 AM	61106
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	7/3/2021 10:11:59 PM	61039
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/3/2021 10:11:59 PM	61039
Surr: DNOP	162	70-130	S	%Rec	1	7/3/2021 10:11:59 PM	61039
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/3/2021 6:24:04 AM	61022
Surr: BFB	99.7	70-130		%Rec	1	7/3/2021 6:24:04 AM	61022
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	7/3/2021 6:24:04 AM	61022
Toluene	ND	0.047		mg/Kg	1	7/3/2021 6:24:04 AM	61022
Ethylbenzene	ND	0.047		mg/Kg	1	7/3/2021 6:24:04 AM	61022
Xylenes, Total	ND	0.094		mg/Kg	1	7/3/2021 6:24:04 AM	61022
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/3/2021 6:24:04 AM	61022

**Lab ID:** 2106E76-005

**Collection Date:** 6/28/2021 8:55:00 AM

**Client Sample ID:** TP11-2

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	4200	150		mg/Kg	50	7/6/2021 7:56:34 AM	61106
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/3/2021 10:35:53 PM	61039
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/3/2021 10:35:53 PM	61039
Surr: DNOP	214	70-130	S	%Rec	1	7/3/2021 10:35:53 PM	61039
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/3/2021 6:47:40 AM	61022
Surr: BFB	101	70-130		%Rec	1	7/3/2021 6:47:40 AM	61022
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	7/3/2021 6:47:40 AM	61022
Toluene	ND	0.046		mg/Kg	1	7/3/2021 6:47:40 AM	61022
Ethylbenzene	ND	0.046		mg/Kg	1	7/3/2021 6:47:40 AM	61022
Xylenes, Total	ND	0.092		mg/Kg	1	7/3/2021 6:47:40 AM	61022
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/3/2021 6:47:40 AM	61022

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

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation 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: 2106E76

Date Reported: 7/9/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland  
**Project:** Jackson B 33

**Lab Order:** 2106E76

**Lab ID:** 2106E76-006

**Collection Date:** 6/28/2021 9:15:00 AM

**Client Sample ID:** TP11-8

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	4300	150		mg/Kg	50	7/6/2021 8:08:59 AM	61106
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.2		mg/Kg	1	7/3/2021 10:59:50 PM	61039
Motor Oil Range Organics (MRO)	ND	41		mg/Kg	1	7/3/2021 10:59:50 PM	61039
Surr: DNOP	99.8	70-130		%Rec	1	7/3/2021 10:59:50 PM	61039
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/3/2021 7:11:17 AM	61022
Surr: BFB	100	70-130		%Rec	1	7/3/2021 7:11:17 AM	61022
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/3/2021 7:11:17 AM	61022
Toluene	ND	0.048		mg/Kg	1	7/3/2021 7:11:17 AM	61022
Ethylbenzene	ND	0.048		mg/Kg	1	7/3/2021 7:11:17 AM	61022
Xylenes, Total	ND	0.096		mg/Kg	1	7/3/2021 7:11:17 AM	61022
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/3/2021 7:11:17 AM	61022

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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: 2106E76

Date Reported: 7/9/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Lab Order: 2106E76

Project: Jackson B 33

Lab ID: 2106E76-007

Collection Date: 6/28/2021 9:20:00 AM

Client Sample ID: TP11-10

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	3600	150		mg/Kg	50	7/6/2021 8:21:24 AM	61106
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/3/2021 11:23:43 PM	61039
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/3/2021 11:23:43 PM	61039
Surr: DNOP	88.0	70-130		%Rec	1	7/3/2021 11:23:43 PM	61039
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/3/2021 7:34:54 AM	61022
Surr: BFB	99.7	70-130		%Rec	1	7/3/2021 7:34:54 AM	61022
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	7/3/2021 7:34:54 AM	61022
Toluene	ND	0.049		mg/Kg	1	7/3/2021 7:34:54 AM	61022
Ethylbenzene	ND	0.049		mg/Kg	1	7/3/2021 7:34:54 AM	61022
Xylenes, Total	ND	0.099		mg/Kg	1	7/3/2021 7:34:54 AM	61022
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/3/2021 7:34:54 AM	61022

Lab ID: 2106E76-008

Collection Date: 6/28/2021 9:30:00 AM

Client Sample ID: TP11-12

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	370	61		mg/Kg	20	7/3/2021 2:30:29 AM	61106
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/3/2021 11:47:38 PM	61039
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/3/2021 11:47:38 PM	61039
Surr: DNOP	91.4	70-130		%Rec	1	7/3/2021 11:47:38 PM	61039
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/3/2021 7:58:32 AM	61022
Surr: BFB	101	70-130		%Rec	1	7/3/2021 7:58:32 AM	61022
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/3/2021 7:58:32 AM	61022
Toluene	ND	0.048		mg/Kg	1	7/3/2021 7:58:32 AM	61022
Ethylbenzene	ND	0.048		mg/Kg	1	7/3/2021 7:58:32 AM	61022
Xylenes, Total	ND	0.095		mg/Kg	1	7/3/2021 7:58:32 AM	61022
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/3/2021 7:58:32 AM	61022

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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: 2106E76

Date Reported: 7/9/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Lab Order:** 2106E76

**Project:** Jackson B 33

**Lab ID:** 2106E76-009

**Collection Date:** 6/28/2021 9:35:00 AM

**Client Sample ID:** TP12-S

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	7/3/2021 2:42:54 AM	61106
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/4/2021 12:11:29 AM	61039
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/4/2021 12:11:29 AM	61039
Surr: DNOP	85.0	70-130		%Rec	1	7/4/2021 12:11:29 AM	61039
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/3/2021 8:45:45 AM	61022
Surr: BFB	99.7	70-130		%Rec	1	7/3/2021 8:45:45 AM	61022
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/3/2021 8:45:45 AM	61022
Toluene	ND	0.048		mg/Kg	1	7/3/2021 8:45:45 AM	61022
Ethylbenzene	ND	0.048		mg/Kg	1	7/3/2021 8:45:45 AM	61022
Xylenes, Total	ND	0.095		mg/Kg	1	7/3/2021 8:45:45 AM	61022
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/3/2021 8:45:45 AM	61022

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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: 2106E76

Date Reported: 7/9/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland  
**Project:** Jackson B 33

**Lab Order:** 2106E76

**Lab ID:** 2106E76-010

**Collection Date:** 6/28/2021 9:40:00 AM

**Client Sample ID:** TP12-2

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	7/6/2021 3:49:48 PM	61106
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	7/4/2021 12:59:14 AM	61039
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/4/2021 12:59:14 AM	61039
Surr: DNOP	120	70-130		%Rec	1	7/4/2021 12:59:14 AM	61039
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/3/2021 9:09:17 AM	61022
Surr: BFB	103	70-130		%Rec	1	7/3/2021 9:09:17 AM	61022
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	7/3/2021 9:09:17 AM	61022
Toluene	ND	0.047		mg/Kg	1	7/3/2021 9:09:17 AM	61022
Ethylbenzene	ND	0.047		mg/Kg	1	7/3/2021 9:09:17 AM	61022
Xylenes, Total	ND	0.093		mg/Kg	1	7/3/2021 9:09:17 AM	61022
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	7/3/2021 9:09:17 AM	61022

**Lab ID:** 2106E76-011

**Collection Date:** 6/28/2021 9:45:00 AM

**Client Sample ID:** TP13-S

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	7/6/2021 4:02:13 PM	61106
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/6/2021 4:55:39 PM	61039
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/6/2021 4:55:39 PM	61039
Surr: DNOP	74.2	70-130		%Rec	1	7/6/2021 4:55:39 PM	61039
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/3/2021 9:32:46 AM	61022
Surr: BFB	101	70-130		%Rec	1	7/3/2021 9:32:46 AM	61022
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/3/2021 9:32:46 AM	61022
Toluene	ND	0.049		mg/Kg	1	7/3/2021 9:32:46 AM	61022
Ethylbenzene	ND	0.049		mg/Kg	1	7/3/2021 9:32:46 AM	61022
Xylenes, Total	ND	0.097		mg/Kg	1	7/3/2021 9:32:46 AM	61022
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/3/2021 9:32:46 AM	61022

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

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation 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: 2106E76

Date Reported: 7/9/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Lab Order:** 2106E76

**Project:** Jackson B 33

**Lab ID:** 2106E76-012

**Collection Date:** 6/28/2021 9:55:00 AM

**Client Sample ID:** TP13-2

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	7/6/2021 11:54:02 AM	61120
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/4/2021 1:46:56 AM	61039
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/4/2021 1:46:56 AM	61039
Surr: DNOP	115	70-130		%Rec	1	7/4/2021 1:46:56 AM	61039
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/3/2021 9:56:18 AM	61022
Surr: BFB	102	70-130		%Rec	1	7/3/2021 9:56:18 AM	61022
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/3/2021 9:56:18 AM	61022
Toluene	ND	0.048		mg/Kg	1	7/3/2021 9:56:18 AM	61022
Ethylbenzene	ND	0.048		mg/Kg	1	7/3/2021 9:56:18 AM	61022
Xylenes, Total	ND	0.095		mg/Kg	1	7/3/2021 9:56:18 AM	61022
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/3/2021 9:56:18 AM	61022

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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: 2106E76

Date Reported: 7/9/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland  
**Project:** Jackson B 33

**Lab Order:** 2106E76

**Lab ID:** 2106E76-013

**Collection Date:** 6/28/2021 10:00:00 AM

**Client Sample ID:** TP14-S

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	120	60		mg/Kg	20	7/6/2021 12:06:26 PM	61120
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/6/2021 5:19:40 PM	61039
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/6/2021 5:19:40 PM	61039
Surr: DNOP	71.6	70-130		%Rec	1	7/6/2021 5:19:40 PM	61039
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/3/2021 10:19:48 AM	61022
Surr: BFB	102	70-130		%Rec	1	7/3/2021 10:19:48 AM	61022
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	7/3/2021 10:19:48 AM	61022
Toluene	ND	0.046		mg/Kg	1	7/3/2021 10:19:48 AM	61022
Ethylbenzene	ND	0.046		mg/Kg	1	7/3/2021 10:19:48 AM	61022
Xylenes, Total	ND	0.093		mg/Kg	1	7/3/2021 10:19:48 AM	61022
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	7/3/2021 10:19:48 AM	61022

**Lab ID:** 2106E76-014

**Collection Date:** 6/28/2021 10:05:00 AM

**Client Sample ID:** TP14-2

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	100	60		mg/Kg	20	7/6/2021 12:18:51 PM	61120
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/4/2021 2:34:36 AM	61039
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/4/2021 2:34:36 AM	61039
Surr: DNOP	93.2	70-130		%Rec	1	7/4/2021 2:34:36 AM	61039
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/3/2021 10:43:19 AM	61022
Surr: BFB	99.8	70-130		%Rec	1	7/3/2021 10:43:19 AM	61022
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	7/3/2021 10:43:19 AM	61022
Toluene	ND	0.049		mg/Kg	1	7/3/2021 10:43:19 AM	61022
Ethylbenzene	ND	0.049		mg/Kg	1	7/3/2021 10:43:19 AM	61022
Xylenes, Total	ND	0.099		mg/Kg	1	7/3/2021 10:43:19 AM	61022
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	7/3/2021 10:43:19 AM	61022

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

<b>Qualifiers:</b>	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation 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: 2106E76

Date Reported: 7/9/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Lab Order:** 2106E76

**Project:** Jackson B 33

**Lab ID:** 2106E76-015

**Collection Date:** 6/28/2021 10:10:00 AM

**Client Sample ID:** TP15-S

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	7/6/2021 12:56:06 PM	61120
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/1/2021 9:19:33 PM	61027
Surr: BFB	97.7	70-130		%Rec	1	7/1/2021 9:19:33 PM	61027
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	7/1/2021 11:14:43 AM	61050
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/1/2021 11:14:43 AM	61050
Surr: DNOP	123	70-130		%Rec	1	7/1/2021 11:14:43 AM	61050
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.024		mg/Kg	1	7/1/2021 9:19:33 PM	61027
Toluene	ND	0.048		mg/Kg	1	7/1/2021 9:19:33 PM	61027
Ethylbenzene	ND	0.048		mg/Kg	1	7/1/2021 9:19:33 PM	61027
Xylenes, Total	ND	0.096		mg/Kg	1	7/1/2021 9:19:33 PM	61027
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	7/1/2021 9:19:33 PM	61027
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	1	7/1/2021 9:19:33 PM	61027
Surr: Dibromofluoromethane	102	70-130		%Rec	1	7/1/2021 9:19:33 PM	61027
Surr: Toluene-d8	99.4	70-130		%Rec	1	7/1/2021 9:19:33 PM	61027

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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: **2106E76**

Date Reported: **7/9/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Lab Order:** 2106E76

**Project:** Jackson B 33

**Lab ID:** 2106E76-016

**Collection Date:** 6/28/2021 10:15:00 AM

**Client Sample ID:** TP15-2

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	59		mg/Kg	20	7/6/2021 1:08:30 PM	61120
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/1/2021 9:48:11 PM	61027
Surr: BFB	98.8	70-130		%Rec	1	7/1/2021 9:48:11 PM	61027
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	7/1/2021 3:53:04 PM	61050
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	7/1/2021 3:53:04 PM	61050
Surr: DNOP	108	70-130		%Rec	1	7/1/2021 3:53:04 PM	61050
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.024		mg/Kg	1	7/1/2021 9:48:11 PM	61027
Toluene	ND	0.049		mg/Kg	1	7/1/2021 9:48:11 PM	61027
Ethylbenzene	ND	0.049		mg/Kg	1	7/1/2021 9:48:11 PM	61027
Xylenes, Total	ND	0.098		mg/Kg	1	7/1/2021 9:48:11 PM	61027
Surr: 1,2-Dichloroethane-d4	99.7	70-130		%Rec	1	7/1/2021 9:48:11 PM	61027
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/1/2021 9:48:11 PM	61027
Surr: Dibromofluoromethane	102	70-130		%Rec	1	7/1/2021 9:48:11 PM	61027
Surr: Toluene-d8	93.2	70-130		%Rec	1	7/1/2021 9:48:11 PM	61027

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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: 2106E76

Date Reported: 7/9/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland  
**Project:** Jackson B 33

**Lab Order:** 2106E76

**Lab ID:** 2106E76-017

**Collection Date:** 6/28/2021 10:30:00 AM

**Client Sample ID:** TP4-4

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	120	60		mg/Kg	20	7/6/2021 1:20:55 PM	61120
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/1/2021 10:16:48 PM	61027
Surr: BFB	95.0	70-130		%Rec	1	7/1/2021 10:16:48 PM	61027
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	7/1/2021 11:34:20 AM	61050
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/1/2021 11:34:20 AM	61050
Surr: DNOP	113	70-130		%Rec	1	7/1/2021 11:34:20 AM	61050
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.024		mg/Kg	1	7/1/2021 10:16:48 PM	61027
Toluene	ND	0.049		mg/Kg	1	7/1/2021 10:16:48 PM	61027
Ethylbenzene	ND	0.049		mg/Kg	1	7/1/2021 10:16:48 PM	61027
Xylenes, Total	ND	0.097		mg/Kg	1	7/1/2021 10:16:48 PM	61027
Surr: 1,2-Dichloroethane-d4	96.0	70-130		%Rec	1	7/1/2021 10:16:48 PM	61027
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/1/2021 10:16:48 PM	61027
Surr: Dibromofluoromethane	102	70-130		%Rec	1	7/1/2021 10:16:48 PM	61027
Surr: Toluene-d8	96.2	70-130		%Rec	1	7/1/2021 10:16:48 PM	61027

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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: 2106E76

Date Reported: 7/9/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Lab Order:** 2106E76

**Project:** Jackson B 33

**Lab ID:** 2106E76-018

**Collection Date:** 6/28/2021 10:45:00 AM

**Client Sample ID:** TP7-6

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	65	60		mg/Kg	20	7/6/2021 1:33:19 PM	61120
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/2/2021 3:02:36 AM	61027
Surr: BFB	96.1	70-130		%Rec	1	7/2/2021 3:02:36 AM	61027
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	7/1/2021 11:44:08 AM	61050
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	7/1/2021 11:44:08 AM	61050
Surr: DNOP	122	70-130		%Rec	1	7/1/2021 11:44:08 AM	61050
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.024		mg/Kg	1	7/2/2021 3:02:36 AM	61027
Toluene	ND	0.048		mg/Kg	1	7/2/2021 3:02:36 AM	61027
Ethylbenzene	ND	0.048		mg/Kg	1	7/2/2021 3:02:36 AM	61027
Xylenes, Total	ND	0.096		mg/Kg	1	7/2/2021 3:02:36 AM	61027
Surr: 1,2-Dichloroethane-d4	95.4	70-130		%Rec	1	7/2/2021 3:02:36 AM	61027
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	7/2/2021 3:02:36 AM	61027
Surr: Dibromofluoromethane	98.1	70-130		%Rec	1	7/2/2021 3:02:36 AM	61027
Surr: Toluene-d8	95.9	70-130		%Rec	1	7/2/2021 3:02:36 AM	61027

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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: 2106E76

Date Reported: 7/9/2021

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Lab Order:** 2106E76

**Project:** Jackson B 33

**Lab ID:** 2106E76-019

**Collection Date:** 6/28/2021 11:00:00 AM

**Client Sample ID:** TP6-4

**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	280	60		mg/Kg	20	7/6/2021 1:45:43 PM	61120
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>JMR</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/2/2021 3:31:12 AM	61027
Surr: BFB	101	70-130		%Rec	1	7/2/2021 3:31:12 AM	61027
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/1/2021 11:54:01 AM	61050
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/1/2021 11:54:01 AM	61050
Surr: DNOP	128	70-130		%Rec	1	7/1/2021 11:54:01 AM	61050
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>JMR</b>
Benzene	ND	0.024		mg/Kg	1	7/2/2021 3:31:12 AM	61027
Toluene	ND	0.049		mg/Kg	1	7/2/2021 3:31:12 AM	61027
Ethylbenzene	ND	0.049		mg/Kg	1	7/2/2021 3:31:12 AM	61027
Xylenes, Total	ND	0.097		mg/Kg	1	7/2/2021 3:31:12 AM	61027
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	7/2/2021 3:31:12 AM	61027
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	7/2/2021 3:31:12 AM	61027
Surr: Dibromofluoromethane	101	70-130		%Rec	1	7/2/2021 3:31:12 AM	61027
Surr: Toluene-d8	100	70-130		%Rec	1	7/2/2021 3:31:12 AM	61027

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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#: 2106E76

09-Jul-21

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>MB-61106</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61106</b>	RunNo: <b>79537</b>								
Prep Date: <b>7/2/2021</b>	Analysis Date: <b>7/2/2021</b>	SeqNo: <b>2798059</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-61106</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61106</b>	RunNo: <b>79537</b>								
Prep Date: <b>7/2/2021</b>	Analysis Date: <b>7/2/2021</b>	SeqNo: <b>2798060</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.8	90	110			

Sample ID: <b>LCS-61120</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61120</b>	RunNo: <b>79587</b>								
Prep Date: <b>7/6/2021</b>	Analysis Date: <b>7/6/2021</b>	SeqNo: <b>2799387</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.3	90	110			

Sample ID: <b>MB-61120</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61120</b>	RunNo: <b>79587</b>								
Prep Date: <b>7/6/2021</b>	Analysis Date: <b>7/6/2021</b>	SeqNo: <b>2799388</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2106E76

09-Jul-21

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>LCS-61050</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61050</b>	RunNo: <b>79506</b>								
Prep Date: <b>6/30/2021</b>	Analysis Date: <b>7/1/2021</b>	SeqNo: <b>2795288</b>	Units: <b>mg/Kg</b>							
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	141			
Surr: DNOP	5.1		5.000		102	70	130			

Sample ID: <b>MB-61050</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61050</b>	RunNo: <b>79506</b>								
Prep Date: <b>6/30/2021</b>	Analysis Date: <b>7/1/2021</b>	SeqNo: <b>2795290</b>	Units: <b>mg/Kg</b>							
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		102	70	130			

Sample ID: <b>MB-61039</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61039</b>	RunNo: <b>79583</b>								
Prep Date: <b>6/30/2021</b>	Analysis Date: <b>7/3/2021</b>	SeqNo: <b>2798903</b>	Units: <b>mg/Kg</b>							
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		99.3	70	130			

Sample ID: <b>LCS-61039</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61039</b>	RunNo: <b>79583</b>								
Prep Date: <b>6/30/2021</b>	Analysis Date: <b>7/3/2021</b>	SeqNo: <b>2798904</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	68.9	141			
Surr: DNOP	5.4		5.000		109	70	130			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2106E76

09-Jul-21

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>mb-61022</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61022</b>	RunNo: <b>79564</b>								
Prep Date: <b>6/29/2021</b>	Analysis Date: <b>7/3/2021</b>	SeqNo: <b>2797811</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.4	70	130			

Sample ID: <b>ics-61022</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61022</b>	RunNo: <b>79564</b>								
Prep Date: <b>6/29/2021</b>	Analysis Date: <b>7/2/2021</b>	SeqNo: <b>2797812</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.1	78.6	131			
Surr: BFB	1100		1000		107	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#: 2106E76

09-Jul-21

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>mb-61022</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61022</b>	RunNo: <b>79564</b>								
Prep Date: <b>6/29/2021</b>	Analysis Date: <b>7/3/2021</b>	SeqNo: <b>2797869</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Sample ID: <b>LCS-61022</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61022</b>	RunNo: <b>79564</b>								
Prep Date: <b>6/29/2021</b>	Analysis Date: <b>7/2/2021</b>	SeqNo: <b>2797870</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	83.2	80	120			
Toluene	0.87	0.050	1.000	0	87.2	80	120			
Ethylbenzene	0.87	0.050	1.000	0	87.2	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.3	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.7	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#: 2106E76

09-Jul-21

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>ics-61027</b>	SampType: <b>LCS4</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>BatchQC</b>	Batch ID: <b>61027</b>	RunNo: <b>79525</b>								
Prep Date: <b>6/29/2021</b>	Analysis Date: <b>7/1/2021</b>	SeqNo: <b>2796932</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.7	80	120			
Toluene	0.89	0.050	1.000	0	88.8	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	88.6	80	120			
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		104	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.2	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130			
Surr: Toluene-d8	0.49		0.5000		98.4	70	130			

Sample ID: <b>mb-61027</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61027</b>	RunNo: <b>79525</b>								
Prep Date: <b>6/29/2021</b>	Analysis Date: <b>7/1/2021</b>	SeqNo: <b>2796934</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.54		0.5000		108	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		107	70	130			
Surr: Toluene-d8	0.49		0.5000		97.5	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#: 2106E76

09-Jul-21

**Client:** GHD Midland

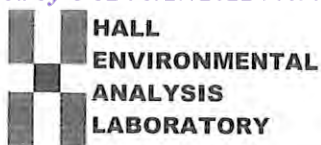
**Project:** Jackson B 33

Sample ID: <b>ics-61027</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61027</b>	RunNo: <b>79525</b>								
Prep Date: <b>6/29/2021</b>	Analysis Date: <b>7/1/2021</b>	SeqNo: <b>2796980</b>	Units: <b>mg/Kg</b>							
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	70	130			
Surr: BFB	520		500.0		104	70	130			

Sample ID: <b>mb-61027</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61027</b>	RunNo: <b>79525</b>								
Prep Date: <b>6/29/2021</b>	Analysis Date: <b>7/1/2021</b>	SeqNo: <b>2796982</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	490		500.0		98.5	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 Work Order Number: 2106E76 RcptNo: 1

Received By: Juan Rojas 6/28/2021 4:02:00 PM
Completed By: Cheyenne Cason 6/29/2021 7:48:56 AM
Reviewed By: JR 6/29/21

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? 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: SPA 6.29.21

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, 4.6, Good, [ ], [ ], [ ]

### Chain-of-Custody Record

Client: GHD  
 Mailing Address: 246 N. Main St. Suite 108 Artesia, NM 88210  
 Phone #: (505) 372-4218  
 email or Fax#: Becky.Haskell@GHD.com  
 QA/QC Package: Check - settle @ cognosources.com  
 Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  
 NELAC  Other  
 EDD (Type)

Turn-Around Time:  
 Standard  Rush 5-day  
 Project Name: Jackson B #33  
 Project #: 11228405  
 Project Manager: Becky Haskell  
Tom Larson  
 Sampler: Zach Coimbra  
 On Ice:  Yes  No  
 # of Coolers: 1  
 Cooler Temp (including CF): 4.5-0.2 = 4.6 (°C)

Container Type and # Jar HEAL No. Z10G E76  
 Preservative Type  
 Received by: Aluminum Date 4/28/21 1:30  
 Relinquished by: Zach Coimbra Date 4/28/21 1:30  
 Received by: Aluminum Date 4/28/21 1:30  
 Relinquished by: Aluminum Date 4/28/21 1:30

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
<u>06/28/21</u>	<u>0830</u>	<u>S</u>	<u>TP9-2</u>	<u>Jar</u>		<u>Z10G E76</u>
		<u>OB35</u>	<u>TP9-4</u>			<u>001</u>
	<u>0840</u>	<u>S</u>	<u>TP10-S</u>			<u>002</u>
	<u>0845</u>		<u>TP10-2</u>			<u>003</u>
	<u>0855</u>		<u>TP11-2</u>			<u>004</u>
	<u>0915</u>		<u>TP11-8</u>			<u>005</u>
	<u>0920</u>		<u>TP11-10</u>			<u>006</u>
	<u>0930</u>		<u>TP11-12</u>			<u>007</u>
	<u>0935</u>		<u>TP12-S</u>			<u>008</u>
	<u>0940</u>		<u>TP12-2</u>			<u>009</u>
	<u>0945</u>		<u>TP13-S</u>			<u>010</u>
	<u>0955</u>		<u>TP13-2</u>			<u>011</u>
						<u>012</u>



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 / TMB's (8021)	
TH: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 <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	<u>Chloride Method 300</u>

Remarks: Please email zach.coimbra@ghd.com along with others listed above  
Direct Bill to EOG Chase Settle

# Chain-of-Custody Record

Client: GHD

Mailing Address:  
246 Main St Suite 108 Artesia NM 88210  
 Phone #: (505) 377-4218  
 email or Fax#: Becky.Haskell@GHD.com  
 QA/QC Package: Chris Schick @ resources.com  
 Standard  Level 4 (Full Validation)

Accreditation:  AZ Compliance  
 NELAC  Other  
 EDD (Type)

Turn-Around Time:  
 Standard  Rush 5-day  
 Project Name: Jackson B.#33  
 Project #: 11728405  
 Project Manager: Becky Haskell  
Tom Larson  
 Sampler: Zach Comiskey  
 On Ice:  Yes  No  
 # of Coolers: 1  
 Cooler Temp (including CF): 41.8-0.2=41.6 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
06/28/19	1000	S	TP14-S			2106126
	1005		TP14-2			013
	1010		TP15-S			014
	1015		TP15-2			015
	1030		TP14-4			016
	1045		TP17-6			017
	1100		TP6-4			018
						019

Relinquished by: Zach Comiskey Date: 6/28/19 Time: 1230  
 Relinquished by: Becky Haskell Date: 6/29/19 Time: 1900

**Analysis Request**

BTEX / MTBE / TMBs (8021)	<input checked="" type="checkbox"/>
FPH:8015D(GRO / DRO / MRO)	<input checked="" type="checkbox"/>
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	<u>2</u>

Remarks: Please email zach.comiskey@GHD.com along with others listed above  
Direct Bill to GHD Chase Settle





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

August 02, 2021

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

RE: Jackson B 33

OrderNo.: 2107B84

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 14 sample(s) on 7/23/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://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 white background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **2107B84**

Date Reported: **8/2/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** TP5-25

**Project:** Jackson B 33

**Collection Date:** 7/21/2021 9:15:00 AM

**Lab ID:** 2107B84-001

**Matrix:** SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	2300	60		mg/Kg	20	7/29/2021 5:09:49 AM	61633
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/27/2021 2:11:16 PM	61556
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/27/2021 2:11:16 PM	61556
Surr: DNOP	146	70-130	S	%Rec	1	7/27/2021 2:11:16 PM	61556
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/28/2021 12:06:12 PM	61536
Surr: BFB	109	70-130		%Rec	1	7/28/2021 12:06:12 PM	61536
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	7/28/2021 12:06:12 PM	61536
Toluene	ND	0.050		mg/Kg	1	7/28/2021 12:06:12 PM	61536
Ethylbenzene	ND	0.050		mg/Kg	1	7/28/2021 12:06:12 PM	61536
Xylenes, Total	ND	0.10		mg/Kg	1	7/28/2021 12:06:12 PM	61536
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/28/2021 12:06:12 PM	61536

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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 **2107B84**

Date Reported: **8/2/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** TP5-30

**Project:** Jackson B 33

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

**Lab ID:** 2107B84-002

**Matrix:** SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	1700	60		mg/Kg	20	7/29/2021 5:22:14 AM	61633
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	27	9.9		mg/Kg	1	7/27/2021 5:08:44 PM	61571
Motor Oil Range Organics (MRO)	73	49		mg/Kg	1	7/27/2021 5:08:44 PM	61571
Surr: DNOP	134	70-130	S	%Rec	1	7/27/2021 5:08:44 PM	61571
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/28/2021 11:16:00 AM	61543
Surr: BFB	121	70-130		%Rec	1	7/28/2021 11:16:00 AM	61543
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.025		mg/Kg	1	7/28/2021 11:16:00 AM	61543
Toluene	ND	0.049		mg/Kg	1	7/28/2021 11:16:00 AM	61543
Ethylbenzene	ND	0.049		mg/Kg	1	7/28/2021 11:16:00 AM	61543
Xylenes, Total	ND	0.099		mg/Kg	1	7/28/2021 11:16:00 AM	61543
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	7/28/2021 11:16:00 AM	61543

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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 **2107B84**

Date Reported: **8/2/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** TP5-35

**Project:** Jackson B 33

**Collection Date:** 7/21/2021 10:45:00 AM

**Lab ID:** 2107B84-003

**Matrix:** SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	1900	60		mg/Kg	20	7/29/2021 5:34:39 AM	61633
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	61	9.5		mg/Kg	1	7/27/2021 2:04:15 PM	61571
Motor Oil Range Organics (MRO)	82	48		mg/Kg	1	7/27/2021 2:04:15 PM	61571
Surr: DNOP	120	70-130		%Rec	1	7/27/2021 2:04:15 PM	61571
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/28/2021 12:15:00 PM	61543
Surr: BFB	114	70-130		%Rec	1	7/28/2021 12:15:00 PM	61543
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.025		mg/Kg	1	7/28/2021 12:15:00 PM	61543
Toluene	ND	0.049		mg/Kg	1	7/28/2021 12:15:00 PM	61543
Ethylbenzene	ND	0.049		mg/Kg	1	7/28/2021 12:15:00 PM	61543
Xylenes, Total	ND	0.099		mg/Kg	1	7/28/2021 12:15:00 PM	61543
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/28/2021 12:15:00 PM	61543

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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 **2107B84**

Date Reported: **8/2/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** TP5-40

**Project:** Jackson B 33

**Collection Date:** 7/21/2021 11:00:00 AM

**Lab ID:** 2107B84-004

**Matrix:** SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	1700	60		mg/Kg	20	7/29/2021 11:10:22 AM	61644
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/27/2021 2:16:36 PM	61571
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/27/2021 2:16:36 PM	61571
Surr: DNOP	120	70-130		%Rec	1	7/27/2021 2:16:36 PM	61571
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/28/2021 5:56:00 PM	61543
Surr: BFB	101	70-130		%Rec	1	7/28/2021 5:56:00 PM	61543
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.025		mg/Kg	1	7/28/2021 5:56:00 PM	61543
Toluene	ND	0.050		mg/Kg	1	7/28/2021 5:56:00 PM	61543
Ethylbenzene	ND	0.050		mg/Kg	1	7/28/2021 5:56:00 PM	61543
Xylenes, Total	ND	0.099		mg/Kg	1	7/28/2021 5:56:00 PM	61543
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	7/28/2021 5:56:00 PM	61543

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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 2107B84

Date Reported: 8/2/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP5-45

Project: Jackson B 33

Collection Date: 7/21/2021 11:20:00 AM

Lab ID: 2107B84-005

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	1800	75		mg/Kg	50	7/30/2021 8:30:36 AM	61644
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/27/2021 2:29:02 PM	61571
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/27/2021 2:29:02 PM	61571
Surr: DNOP	121	70-130		%Rec	1	7/27/2021 2:29:02 PM	61571
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/28/2021 6:16:00 PM	61543
Surr: BFB	99.0	70-130		%Rec	1	7/28/2021 6:16:00 PM	61543
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	7/28/2021 6:16:00 PM	61543
Toluene	ND	0.049		mg/Kg	1	7/28/2021 6:16:00 PM	61543
Ethylbenzene	ND	0.049		mg/Kg	1	7/28/2021 6:16:00 PM	61543
Xylenes, Total	ND	0.097		mg/Kg	1	7/28/2021 6:16:00 PM	61543
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	7/28/2021 6:16:00 PM	61543

Refer to the QC Summary report and sample login checklist for flagged QC data 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 2107B84

Date Reported: 8/2/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP5-55

Project: Jackson B 33

Collection Date: 7/21/2021 11:45:00 AM

Lab ID: 2107B84-006

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	4900	300		mg/Kg	100	7/30/2021 8:43:00 AM	61644
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	21	9.5		mg/Kg	1	7/27/2021 2:41:29 PM	61571
Motor Oil Range Organics (MRO)	48	47		mg/Kg	1	7/27/2021 2:41:29 PM	61571
Surr: DNOP	126	70-130		%Rec	1	7/27/2021 2:41:29 PM	61571
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/28/2021 6:36:00 PM	61543
Surr: BFB	100	70-130		%Rec	1	7/28/2021 6:36:00 PM	61543
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	7/28/2021 6:36:00 PM	61543
Toluene	ND	0.049		mg/Kg	1	7/28/2021 6:36:00 PM	61543
Ethylbenzene	ND	0.049		mg/Kg	1	7/28/2021 6:36:00 PM	61543
Xylenes, Total	ND	0.098		mg/Kg	1	7/28/2021 6:36:00 PM	61543
Surr: 4-Bromofluorobenzene	88.7	70-130		%Rec	1	7/28/2021 6:36:00 PM	61543

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

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**Analytical Report**

Lab Order **2107B84**

Date Reported: **8/2/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** TP5-60

**Project:** Jackson B 33

**Collection Date:** 7/21/2021 1:00:00 PM

**Lab ID:** 2107B84-007

**Matrix:** SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	4300	150		mg/Kg	50	7/30/2021 8:55:25 AM	61644
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	19	9.9		mg/Kg	1	7/27/2021 2:53:54 PM	61571
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/27/2021 2:53:54 PM	61571
Surr: DNOP	111	70-130		%Rec	1	7/27/2021 2:53:54 PM	61571
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/28/2021 6:56:00 PM	61543
Surr: BFB	109	70-130		%Rec	1	7/28/2021 6:56:00 PM	61543
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	7/28/2021 6:56:00 PM	61543
Toluene	ND	0.049		mg/Kg	1	7/28/2021 6:56:00 PM	61543
Ethylbenzene	ND	0.049		mg/Kg	1	7/28/2021 6:56:00 PM	61543
Xylenes, Total	ND	0.098		mg/Kg	1	7/28/2021 6:56:00 PM	61543
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	7/28/2021 6:56:00 PM	61543

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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 **2107B84**

Date Reported: **8/2/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** TP5-70

**Project:** Jackson B 33

**Collection Date:** 7/21/2021 1:40:00 PM

**Lab ID:** 2107B84-008

**Matrix:** SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	580	60		mg/Kg	20	7/29/2021 12:00:01 PM	61644
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/27/2021 3:06:17 PM	61571
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/27/2021 3:06:17 PM	61571
Surr: DNOP	128	70-130		%Rec	1	7/27/2021 3:06:17 PM	61571
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/28/2021 7:17:00 PM	61543
Surr: BFB	95.9	70-130		%Rec	1	7/28/2021 7:17:00 PM	61543
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.025		mg/Kg	1	7/28/2021 7:17:00 PM	61543
Toluene	ND	0.049		mg/Kg	1	7/28/2021 7:17:00 PM	61543
Ethylbenzene	ND	0.049		mg/Kg	1	7/28/2021 7:17:00 PM	61543
Xylenes, Total	ND	0.098		mg/Kg	1	7/28/2021 7:17:00 PM	61543
Surr: 4-Bromofluorobenzene	87.7	70-130		%Rec	1	7/28/2021 7:17:00 PM	61543

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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 **2107B84**

Date Reported: **8/2/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** TP5-75

**Project:** Jackson B 33

**Collection Date:** 7/21/2021 2:40:00 PM

**Lab ID:** 2107B84-009

**Matrix:** SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	1700	60		mg/Kg	20	7/29/2021 12:12:25 PM	61644
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	21	9.9		mg/Kg	1	7/27/2021 3:18:35 PM	61571
Motor Oil Range Organics (MRO)	98	49		mg/Kg	1	7/27/2021 3:18:35 PM	61571
Surr: DNOP	124	70-130		%Rec	1	7/27/2021 3:18:35 PM	61571
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/28/2021 7:37:00 PM	61543
Surr: BFB	100	70-130		%Rec	1	7/28/2021 7:37:00 PM	61543
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.025		mg/Kg	1	7/28/2021 7:37:00 PM	61543
Toluene	ND	0.050		mg/Kg	1	7/28/2021 7:37:00 PM	61543
Ethylbenzene	ND	0.050		mg/Kg	1	7/28/2021 7:37:00 PM	61543
Xylenes, Total	ND	0.10		mg/Kg	1	7/28/2021 7:37:00 PM	61543
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	7/28/2021 7:37:00 PM	61543

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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 **2107B84**

Date Reported: **8/2/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** TP5-80

**Project:** Jackson B 33

**Collection Date:** 7/21/2021 3:10:00 PM

**Lab ID:** 2107B84-010

**Matrix:** SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	1300	60		mg/Kg	20	7/29/2021 12:49:39 PM	61644
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	33	9.4		mg/Kg	1	7/27/2021 3:30:59 PM	61571
Motor Oil Range Organics (MRO)	110	47		mg/Kg	1	7/27/2021 3:30:59 PM	61571
Surr: DNOP	129	70-130		%Rec	1	7/27/2021 3:30:59 PM	61571
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/28/2021 7:57:00 PM	61543
Surr: BFB	105	70-130		%Rec	1	7/28/2021 7:57:00 PM	61543
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.025		mg/Kg	1	7/28/2021 7:57:00 PM	61543
Toluene	ND	0.050		mg/Kg	1	7/28/2021 7:57:00 PM	61543
Ethylbenzene	ND	0.050		mg/Kg	1	7/28/2021 7:57:00 PM	61543
Xylenes, Total	ND	0.099		mg/Kg	1	7/28/2021 7:57:00 PM	61543
Surr: 4-Bromofluorobenzene	90.7	70-130		%Rec	1	7/28/2021 7:57:00 PM	61543

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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 **2107B84**

Date Reported: **8/2/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** TP5-85

**Project:** Jackson B 33

**Collection Date:** 7/21/2021 3:40:00 PM

**Lab ID:** 2107B84-011

**Matrix:** SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	2100	60		mg/Kg	20	7/29/2021 1:02:03 PM	61644
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	14	9.6		mg/Kg	1	7/27/2021 3:43:34 PM	61571
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/27/2021 3:43:34 PM	61571
Surr: DNOP	126	70-130		%Rec	1	7/27/2021 3:43:34 PM	61571
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/28/2021 8:17:00 PM	61543
Surr: BFB	99.1	70-130		%Rec	1	7/28/2021 8:17:00 PM	61543
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.025		mg/Kg	1	7/28/2021 8:17:00 PM	61543
Toluene	ND	0.049		mg/Kg	1	7/28/2021 8:17:00 PM	61543
Ethylbenzene	ND	0.049		mg/Kg	1	7/28/2021 8:17:00 PM	61543
Xylenes, Total	ND	0.098		mg/Kg	1	7/28/2021 8:17:00 PM	61543
Surr: 4-Bromofluorobenzene	91.0	70-130		%Rec	1	7/28/2021 8:17:00 PM	61543

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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 **2107B84**

Date Reported: **8/2/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** TP5-90

**Project:** Jackson B 33

**Collection Date:** 7/21/2021 4:10:00 PM

**Lab ID:** 2107B84-012

**Matrix:** SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	170	60		mg/Kg	20	7/29/2021 1:14:28 PM	61644
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/27/2021 3:56:05 PM	61571
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/27/2021 3:56:05 PM	61571
Surr: DNOP	136	70-130	S	%Rec	1	7/27/2021 3:56:05 PM	61571
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/28/2021 8:37:00 PM	61543
Surr: BFB	99.1	70-130		%Rec	1	7/28/2021 8:37:00 PM	61543
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	7/28/2021 8:37:00 PM	61543
Toluene	ND	0.048		mg/Kg	1	7/28/2021 8:37:00 PM	61543
Ethylbenzene	ND	0.048		mg/Kg	1	7/28/2021 8:37:00 PM	61543
Xylenes, Total	ND	0.097		mg/Kg	1	7/28/2021 8:37:00 PM	61543
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	7/28/2021 8:37:00 PM	61543

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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 **2107B84**

Date Reported: **8/2/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** TP5-95

**Project:** Jackson B 33

**Collection Date:** 7/21/2021 4:40:00 PM

**Lab ID:** 2107B84-013

**Matrix:** SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	120	60		mg/Kg	20	7/29/2021 1:26:53 PM	61644
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/27/2021 4:08:31 PM	61571
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/27/2021 4:08:31 PM	61571
Surr: DNOP	129	70-130		%Rec	1	7/27/2021 4:08:31 PM	61571
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/28/2021 9:57:00 PM	61543
Surr: BFB	101	70-130		%Rec	1	7/28/2021 9:57:00 PM	61543
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.025		mg/Kg	1	7/28/2021 9:57:00 PM	61543
Toluene	ND	0.049		mg/Kg	1	7/28/2021 9:57:00 PM	61543
Ethylbenzene	ND	0.049		mg/Kg	1	7/28/2021 9:57:00 PM	61543
Xylenes, Total	ND	0.098		mg/Kg	1	7/28/2021 9:57:00 PM	61543
Surr: 4-Bromofluorobenzene	89.3	70-130		%Rec	1	7/28/2021 9:57:00 PM	61543

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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 **2107B84**

Date Reported: **8/2/2021**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** TP5-100

**Project:** Jackson B 33

**Collection Date:** 7/21/2021 4:50:00 PM

**Lab ID:** 2107B84-014

**Matrix:** SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	96	60		mg/Kg	20	7/29/2021 1:39:18 PM	61644
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/27/2021 4:20:53 PM	61571
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/27/2021 4:20:53 PM	61571
Surr: DNOP	130	70-130	S	%Rec	1	7/27/2021 4:20:53 PM	61571
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>CCM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/28/2021 10:17:00 PM	61543
Surr: BFB	100	70-130		%Rec	1	7/28/2021 10:17:00 PM	61543
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>CCM</b>
Benzene	ND	0.024		mg/Kg	1	7/28/2021 10:17:00 PM	61543
Toluene	ND	0.049		mg/Kg	1	7/28/2021 10:17:00 PM	61543
Ethylbenzene	ND	0.049		mg/Kg	1	7/28/2021 10:17:00 PM	61543
Xylenes, Total	ND	0.097		mg/Kg	1	7/28/2021 10:17:00 PM	61543
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	7/28/2021 10:17:00 PM	61543

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

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation 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#: 2107B84

02-Aug-21

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>MB-61633</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61633</b>	RunNo: <b>80149</b>								
Prep Date: <b>7/28/2021</b>	Analysis Date: <b>7/28/2021</b>	SeqNo: <b>2822160</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-61633</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61633</b>	RunNo: <b>80149</b>								
Prep Date: <b>7/28/2021</b>	Analysis Date: <b>7/28/2021</b>	SeqNo: <b>2822161</b>	Units: <b>mg/Kg</b>							
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: <b>MB-61644</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61644</b>	RunNo: <b>80187</b>								
Prep Date: <b>7/29/2021</b>	Analysis Date: <b>7/29/2021</b>	SeqNo: <b>2823302</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-61644</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61644</b>	RunNo: <b>80187</b>								
Prep Date: <b>7/29/2021</b>	Analysis Date: <b>7/29/2021</b>	SeqNo: <b>2823303</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.6	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
- 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#: 2107B84

02-Aug-21

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>LCS-61556</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61556</b>	RunNo: <b>80098</b>								
Prep Date: <b>7/26/2021</b>	Analysis Date: <b>7/27/2021</b>	SeqNo: <b>2819508</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	109	68.9	141			
Surr: DNOP	4.9		5.000		98.8	70	130			

Sample ID: <b>MB-61556</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61556</b>	RunNo: <b>80098</b>								
Prep Date: <b>7/26/2021</b>	Analysis Date: <b>7/27/2021</b>	SeqNo: <b>2819509</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		127	70	130			

Sample ID: <b>MB-61571</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61571</b>	RunNo: <b>80100</b>								
Prep Date: <b>7/26/2021</b>	Analysis Date: <b>7/27/2021</b>	SeqNo: <b>2819515</b>	Units: <b>mg/Kg</b>							
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		123	70	130			

Sample ID: <b>LCS-61571</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61571</b>	RunNo: <b>80100</b>								
Prep Date: <b>7/26/2021</b>	Analysis Date: <b>7/27/2021</b>	SeqNo: <b>2819516</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	10	50.00	0	116	68.9	141			
Surr: DNOP	5.7		5.000		114	70	130			

Sample ID: <b>MB-61572</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61572</b>	RunNo: <b>80098</b>								
Prep Date: <b>7/26/2021</b>	Analysis Date: <b>7/27/2021</b>	SeqNo: <b>2820635</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		123	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#: 2107B84

02-Aug-21

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>LCS-61572</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61572</b>	RunNo: <b>80098</b>								
Prep Date: <b>7/26/2021</b>	Analysis Date: <b>7/27/2021</b>	SeqNo: <b>2820636</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		97.3	70	130			

Sample ID: <b>2107B84-002AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>TP5-30</b>	Batch ID: <b>61571</b>	RunNo: <b>80100</b>								
Prep Date: <b>7/26/2021</b>	Analysis Date: <b>7/27/2021</b>	SeqNo: <b>2821150</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	9.8	49.02	20.75	68.4	15	184			
Surr: DNOP	5.3		4.902		107	70	130			

Sample ID: <b>2107B84-002AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>TP5-30</b>	Batch ID: <b>61571</b>	RunNo: <b>80100</b>								
Prep Date: <b>7/26/2021</b>	Analysis Date: <b>7/27/2021</b>	SeqNo: <b>2821151</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	49.90	20.75	48.3	15	184	19.0	23.9	
Surr: DNOP	5.1		4.990		101	70	130	0	0	

Sample ID: <b>MB-61603</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61603</b>	RunNo: <b>80141</b>								
Prep Date: <b>7/27/2021</b>	Analysis Date: <b>7/28/2021</b>	SeqNo: <b>2821624</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		98.1	70	130			

Sample ID: <b>LCS-61603</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61603</b>	RunNo: <b>80141</b>								
Prep Date: <b>7/27/2021</b>	Analysis Date: <b>7/28/2021</b>	SeqNo: <b>2821625</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.8		5.000		116	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#: 2107B84

02-Aug-21

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>mb-61536</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61536</b>	RunNo: <b>80115</b>								
Prep Date: <b>7/23/2021</b>	Analysis Date: <b>7/28/2021</b>	SeqNo: <b>2820105</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		98.2	70	130			

Sample ID: <b>lcs-61536</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61536</b>	RunNo: <b>80115</b>								
Prep Date: <b>7/23/2021</b>	Analysis Date: <b>7/27/2021</b>	SeqNo: <b>2820106</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.5	78.6	131			
Surr: BFB	1100		1000		109	70	130			

Sample ID: <b>lcs-61543</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61543</b>	RunNo: <b>80145</b>								
Prep Date: <b>7/24/2021</b>	Analysis Date: <b>7/28/2021</b>	SeqNo: <b>2821695</b>	Units: <b>mg/Kg</b>							
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	1400		1000		145	70	130			S

Sample ID: <b>mb-61543</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61543</b>	RunNo: <b>80145</b>								
Prep Date: <b>7/24/2021</b>	Analysis Date: <b>7/28/2021</b>	SeqNo: <b>2821698</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1200		1000		116	70	130			

Sample ID: <b>2107B84-002ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>TP5-30</b>	Batch ID: <b>61543</b>	RunNo: <b>80145</b>								
Prep Date: <b>7/24/2021</b>	Analysis Date: <b>7/28/2021</b>	SeqNo: <b>2821700</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.63	0	107	61.3	114			
Surr: BFB	1300		985.2		132	70	130			S

Sample ID: <b>2107B84-002amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>TP5-30</b>	Batch ID: <b>61543</b>	RunNo: <b>80145</b>								
Prep Date: <b>7/24/2021</b>	Analysis Date: <b>7/28/2021</b>	SeqNo: <b>2821701</b>	Units: <b>mg/Kg</b>							
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#: 2107B84

02-Aug-21

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>2107B84-002amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>TP5-30</b>	Batch ID: <b>61543</b>	RunNo: <b>80145</b>								
Prep Date: <b>7/24/2021</b>	Analysis Date: <b>7/28/2021</b>	SeqNo: <b>2821701</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	24.90	0	103	61.3	114	2.27	20	
Surr: BFB	1400		996.0		138	70	130	0	0	S

Sample ID: <b>ics-61570</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61570</b>	RunNo: <b>80156</b>								
Prep Date: <b>7/26/2021</b>	Analysis Date: <b>7/28/2021</b>	SeqNo: <b>2822398</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1200		1000		120	70	130			

Sample ID: <b>mb-61570</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61570</b>	RunNo: <b>80156</b>								
Prep Date: <b>7/26/2021</b>	Analysis Date: <b>7/29/2021</b>	SeqNo: <b>2822400</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		106	70	130			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2107B84

02-Aug-21

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>mb-61536</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61536</b>	RunNo: <b>80115</b>								
Prep Date: <b>7/23/2021</b>	Analysis Date: <b>7/28/2021</b>	SeqNo: <b>2820153</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: <b>LCS-61536</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61536</b>	RunNo: <b>80115</b>								
Prep Date: <b>7/23/2021</b>	Analysis Date: <b>7/27/2021</b>	SeqNo: <b>2820154</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	87.8	80	120			
Toluene	0.90	0.050	1.000	0	90.2	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.3	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	70	130			

Sample ID: <b>lcs-61543</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61543</b>	RunNo: <b>80145</b>								
Prep Date: <b>7/24/2021</b>	Analysis Date: <b>7/28/2021</b>	SeqNo: <b>2821696</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.7	80	120			
Toluene	0.96	0.050	1.000	0	95.9	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.0	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	70	130			

Sample ID: <b>mb-61543</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61543</b>	RunNo: <b>80145</b>								
Prep Date: <b>7/24/2021</b>	Analysis Date: <b>7/28/2021</b>	SeqNo: <b>2821697</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2107B84

02-Aug-21

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>LCS-61570</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61570</b>	RunNo: <b>80156</b>								
Prep Date: <b>7/26/2021</b>	Analysis Date: <b>7/28/2021</b>	SeqNo: <b>2822450</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Sample ID: <b>mb-61570</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61570</b>	RunNo: <b>80156</b>								
Prep Date: <b>7/26/2021</b>	Analysis Date: <b>7/29/2021</b>	SeqNo: <b>2822452</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: <b>2107B84-003ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>TP5-35</b>	Batch ID: <b>61543</b>	RunNo: <b>80145</b>								
Prep Date: <b>7/24/2021</b>	Analysis Date: <b>7/28/2021</b>	SeqNo: <b>2822560</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	0.9843	0	89.3	80	120			
Toluene	0.90	0.049	0.9843	0	91.3	80	120			
Ethylbenzene	0.93	0.049	0.9843	0	94.1	80	120			
Xylenes, Total	2.8	0.098	2.953	0	94.6	80	120			
Surr: 4-Bromofluorobenzene	0.87		0.9843		88.7	70	130			

Sample ID: <b>2107B84-003amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>TP5-35</b>	Batch ID: <b>61543</b>	RunNo: <b>80145</b>								
Prep Date: <b>7/24/2021</b>	Analysis Date: <b>7/28/2021</b>	SeqNo: <b>2822561</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.024	0.9756	0	92.2	80	120	2.35	20	
Toluene	0.92	0.049	0.9756	0	94.4	80	120	2.37	20	
Ethylbenzene	0.95	0.049	0.9756	0	97.7	80	120	2.92	20	
Xylenes, Total	2.9	0.098	2.927	0	98.9	80	120	3.49	20	
Surr: 4-Bromofluorobenzene	0.96		0.9756		98.7	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



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: 2107B84 RcptNo: 1

Received By: Juan Rojas 7/23/2021 7:30:00 AM
Completed By: Desiree Dominguez 7/23/2021 10:21:08 AM
Reviewed By: [Signature]

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: KPG 7/23/21

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, 4.3, Good, [ ], [ ], [ ], [ ]

### Chain-of-Custody Record

Client: GHD

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

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

Accreditation:  Az Compliance  NELAC  Other

EDD (Type)

Turn-Around Time:  
 Standard  Rush *S-dy*

Project Name:  
*Jackson B #33*

Project #:  
*11228405*

Project Manager:  
Becky Haskell  
Tom Larson

Sampler: Zach Comino

On Ice:  Yes  No

# of Coolers: *1*

Cooler Temp (including GF): *4.3-0-0.3*

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
<i>07/22/21</i>	<i>0915</i>	<i>S</i>	<i>TPS-25</i>	<i>TW</i>		<i>2107B84</i>
	<i>0945</i>		<i>TPS-30</i>			<i>-001</i>
	<i>1045</i>		<i>TPS-35</i>			<i>-002</i>
	<i>1100</i>		<i>TPS-40</i>			<i>-003</i>
	<i>1120</i>		<i>TPS-45</i>			<i>-004</i>
	<i>1145</i>		<i>TPS-55</i>			<i>-005</i>
	<i>1300</i>		<i>TPS-60</i>			<i>-006</i>
	<i>1440</i>		<i>TPS-70</i>			<i>-007</i>
	<i>1540</i>		<i>TPS-75</i>			<i>-008</i>
	<i>1510</i>		<i>TPS-80</i>			<i>-009</i>
	<i>1540</i>		<i>TPS-85</i>			<i>-010</i>
	<i>1610</i>		<i>TPS-90</i>			<i>-011</i>
						<i>-012</i>

Date: *07/22/21* Time: *0900* Relinquished by: *Zach Comino*

Date: *07/23/21* Time: *0800* Relinquished by: *Zach Comino*

Date: *07/23/21* Time: *1900* Relinquished by: *Zach Comino*



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"/> FPH: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 <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	<i>2107B84</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



### 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](mailto:Becky.Haskell@ghd.com)

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

NELAC  Other

EDD (Type)

Turn-Around Time:  
 Standard  Rush

Project Name:  
Jackson B #33

Project #:  
11228405

Project Manager:  
Becky Haskell  
Tom Larson

Sampler: Zach Comino

On Ice:  Yes  No

# of Coolers: 1

Cooler Temp (including CF): 4.3-0 = 4.3

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
07/21/21	1640	S	TPS-95	Jar		2107B84
07/21/21	1650	S	TPS-100	Jar		-013
						-014



### 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 (802)
<input checked="" type="checkbox"/>	PH:8015D(GRO / DRO / MRO)
<input checked="" type="checkbox"/>	8081 Pesticides/8082 PCB's
	EDB (Method 504.1)
	PAHs by 8310 or 8270SIMS
	RORA 8 Metals
	Cl, F, Br, NO <sub>2</sub> , NO <sub>3</sub> , PO <sub>4</sub> , SO <sub>4</sub>
	8260 (VOA)
	8270 (Semi-VOA)
<input checked="" type="checkbox"/>	Total Coliform (Present/Absent)
<input checked="" type="checkbox"/>	Chloride Method 500
<input checked="" type="checkbox"/>	Run only if TPS-90 fails
<input checked="" type="checkbox"/>	Run only if TPS-90 + TPS-95 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

Received by: *Alumina* Date: 7/22/21 Time: 900

Relinquished by: *Zach Comino*

Received by: *Alumina* Date: 7/23/21 Time: 7:30

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

February 09, 2022

Chase Settle  
EOG Resources  
5509 Champions Dr  
Midland, TX 79706  
TEL: (432) 686-3760  
FAX

RE: Jackson B 33

OrderNo.: 2202002

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 13 sample(s) on 2/1/2022 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](http://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 white background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **2202002**

Date Reported: 2/9/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG Resources

**Client Sample ID:** BH-1

**Project:** Jackson B 33

**Collection Date:** 1/31/2022 10:00:00 AM

**Lab ID:** 2202002-001

**Matrix:** SOIL

**Received Date:** 2/1/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/3/2022 1:39:13 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/3/2022 1:39:13 AM
Surr: DNOP	92.8	51.1-141		%Rec	1	2/3/2022 1:39:13 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/3/2022 12:44:48 AM
Surr: BFB	107	70-130		%Rec	1	2/3/2022 12:44:48 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/3/2022 12:44:48 AM
Toluene	ND	0.049		mg/Kg	1	2/3/2022 12:44:48 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/3/2022 12:44:48 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/3/2022 12:44:48 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/3/2022 12:44:48 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	820	60		mg/Kg	20	2/3/2022 10:23:36 PM

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

<b>Qualifiers:</b>	* 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 **2202002**

Date Reported: **2/9/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG Resources

**Client Sample ID:** BH-2

**Project:** Jackson B 33

**Collection Date:** 1/31/2022 10:10:00 AM

**Lab ID:** 2202002-002

**Matrix:** SOIL

**Received Date:** 2/1/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/3/2022 1:49:43 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/3/2022 1:49:43 AM
Surr: DNOP	90.2	51.1-141		%Rec	1	2/3/2022 1:49:43 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/3/2022 1:54:46 AM
Surr: BFB	108	70-130		%Rec	1	2/3/2022 1:54:46 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/3/2022 1:54:46 AM
Toluene	ND	0.049		mg/Kg	1	2/3/2022 1:54:46 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/3/2022 1:54:46 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/3/2022 1:54:46 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/3/2022 1:54:46 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	2000	60		mg/Kg	20	2/3/2022 10:36:01 PM

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

<b>Qualifiers:</b>	* 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 **2202002**

Date Reported: **2/9/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG Resources

**Client Sample ID:** BH-3

**Project:** Jackson B 33

**Collection Date:** 1/31/2022 10:20:00 AM

**Lab ID:** 2202002-003

**Matrix:** SOIL

**Received Date:** 2/1/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/3/2022 2:00:15 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/3/2022 2:00:15 AM
Surr: DNOP	95.7	51.1-141		%Rec	1	2/3/2022 2:00:15 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/3/2022 3:05:32 AM
Surr: BFB	106	70-130		%Rec	1	2/3/2022 3:05:32 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/3/2022 3:05:32 AM
Toluene	ND	0.050		mg/Kg	1	2/3/2022 3:05:32 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/3/2022 3:05:32 AM
Xylenes, Total	ND	0.10		mg/Kg	1	2/3/2022 3:05:32 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/3/2022 3:05:32 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	2100	61		mg/Kg	20	2/3/2022 10:48:27 PM

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

<b>Qualifiers:</b>	* 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 **2202002**

Date Reported: 2/9/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG Resources

**Client Sample ID:** BH-4

**Project:** Jackson B 33

**Collection Date:** 1/31/2022 10:30:00 AM

**Lab ID:** 2202002-004

**Matrix:** SOIL

**Received Date:** 2/1/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/3/2022 2:10:46 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/3/2022 2:10:46 AM
Surr: DNOP	93.3	51.1-141		%Rec	1	2/3/2022 2:10:46 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/3/2022 3:28:53 AM
Surr: BFB	108	70-130		%Rec	1	2/3/2022 3:28:53 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/3/2022 3:28:53 AM
Toluene	ND	0.049		mg/Kg	1	2/3/2022 3:28:53 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/3/2022 3:28:53 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/3/2022 3:28:53 AM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	2/3/2022 3:28:53 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	1700	60		mg/Kg	20	2/3/2022 11:00:51 PM

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

<b>Qualifiers:</b>	* 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 **2202002**

Date Reported: 2/9/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG Resources

**Client Sample ID:** BH-5

**Project:** Jackson B 33

**Collection Date:** 1/31/2022 10:40:00 AM

**Lab ID:** 2202002-005

**Matrix:** SOIL

**Received Date:** 2/1/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	28	9.7		mg/Kg	1	2/3/2022 2:21:18 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/3/2022 2:21:18 AM
Surr: DNOP	104	51.1-141		%Rec	1	2/3/2022 2:21:18 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/3/2022 3:52:08 AM
Surr: BFB	107	70-130		%Rec	1	2/3/2022 3:52:08 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/3/2022 3:52:08 AM
Toluene	ND	0.049		mg/Kg	1	2/3/2022 3:52:08 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/3/2022 3:52:08 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/3/2022 3:52:08 AM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	2/3/2022 3:52:08 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JMT</b>
Chloride	2000	60		mg/Kg	20	2/3/2022 11:13:16 PM

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

<b>Qualifiers:</b>	* 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 **2202002**

Date Reported: 2/9/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG Resources

**Client Sample ID:** BH-6

**Project:** Jackson B 33

**Collection Date:** 1/31/2022 10:50:00 AM

**Lab ID:** 2202002-006

**Matrix:** SOIL

**Received Date:** 2/1/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/3/2022 2:31:52 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/3/2022 2:31:52 AM
Surr: DNOP	87.9	51.1-141		%Rec	1	2/3/2022 2:31:52 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/3/2022 11:40:44 AM
Surr: BFB	107	70-130		%Rec	1	2/3/2022 11:40:44 AM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/3/2022 11:40:44 AM
Toluene	ND	0.050		mg/Kg	1	2/3/2022 11:40:44 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/3/2022 11:40:44 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/3/2022 11:40:44 AM
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	2/3/2022 11:40:44 AM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	2300	150		mg/Kg	50	2/7/2022 2:55:01 AM

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

<b>Qualifiers:</b>	* 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 **2202002**

Date Reported: 2/9/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG Resources

**Client Sample ID:** BH-7

**Project:** Jackson B 33

**Collection Date:** 1/31/2022 11:00:00 AM

**Lab ID:** 2202002-007

**Matrix:** SOIL

**Received Date:** 2/1/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/3/2022 2:42:25 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/3/2022 2:42:25 AM
Surr: DNOP	92.9	51.1-141		%Rec	1	2/3/2022 2:42:25 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/3/2022 12:04:07 PM
Surr: BFB	108	70-130		%Rec	1	2/3/2022 12:04:07 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/3/2022 12:04:07 PM
Toluene	ND	0.050		mg/Kg	1	2/3/2022 12:04:07 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/3/2022 12:04:07 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/3/2022 12:04:07 PM
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	2/3/2022 12:04:07 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	2400	150		mg/Kg	50	2/7/2022 3:07:25 AM

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

<b>Qualifiers:</b>	* 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 **2202002**

Date Reported: 2/9/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG Resources

**Client Sample ID:** BH-8

**Project:** Jackson B 33

**Collection Date:** 1/31/2022 11:10:00 AM

**Lab ID:** 2202002-008

**Matrix:** SOIL

**Received Date:** 2/1/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	13	9.4		mg/Kg	1	2/3/2022 2:52:59 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/3/2022 2:52:59 AM
Surr: DNOP	86.0	51.1-141		%Rec	1	2/3/2022 2:52:59 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/3/2022 12:27:35 PM
Surr: BFB	107	70-130		%Rec	1	2/3/2022 12:27:35 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/3/2022 12:27:35 PM
Toluene	ND	0.050		mg/Kg	1	2/3/2022 12:27:35 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/3/2022 12:27:35 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/3/2022 12:27:35 PM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	2/3/2022 12:27:35 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	1300	60		mg/Kg	20	2/4/2022 11:37:55 PM

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

<b>Qualifiers:</b>	* 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 **2202002**

Date Reported: 2/9/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG Resources

**Client Sample ID:** BH-9

**Project:** Jackson B 33

**Collection Date:** 1/31/2022 11:20:00 AM

**Lab ID:** 2202002-009

**Matrix:** SOIL

**Received Date:** 2/1/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/3/2022 3:03:43 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/3/2022 3:03:43 AM
Surr: DNOP	90.2	51.1-141		%Rec	1	2/3/2022 3:03:43 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/3/2022 12:51:11 PM
Surr: BFB	107	70-130		%Rec	1	2/3/2022 12:51:11 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/3/2022 12:51:11 PM
Toluene	ND	0.049		mg/Kg	1	2/3/2022 12:51:11 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/3/2022 12:51:11 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/3/2022 12:51:11 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	2/3/2022 12:51:11 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	1200	60		mg/Kg	20	2/4/2022 11:50:19 PM

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

<b>Qualifiers:</b>	* 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 **2202002**

Date Reported: **2/9/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG Resources

**Client Sample ID:** BH-10

**Project:** Jackson B 33

**Collection Date:** 1/31/2022 11:30:00 AM

**Lab ID:** 2202002-010

**Matrix:** SOIL

**Received Date:** 2/1/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/3/2022 3:14:24 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/3/2022 3:14:24 AM
Surr: DNOP	91.0	51.1-141		%Rec	1	2/3/2022 3:14:24 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/3/2022 1:14:32 PM
Surr: BFB	113	70-130		%Rec	1	2/3/2022 1:14:32 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/3/2022 1:14:32 PM
Toluene	ND	0.049		mg/Kg	1	2/3/2022 1:14:32 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/3/2022 1:14:32 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/3/2022 1:14:32 PM
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	2/3/2022 1:14:32 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	1300	60		mg/Kg	20	2/5/2022 12:02:43 AM

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

<b>Qualifiers:</b>	* 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 **2202002**

Date Reported: 2/9/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG Resources

**Client Sample ID:** BH-11

**Project:** Jackson B 33

**Collection Date:** 1/31/2022 11:40:00 AM

**Lab ID:** 2202002-011

**Matrix:** SOIL

**Received Date:** 2/1/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/3/2022 3:25:04 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/3/2022 3:25:04 AM
Surr: DNOP	89.4	51.1-141		%Rec	1	2/3/2022 3:25:04 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/3/2022 1:38:25 PM
Surr: BFB	112	70-130		%Rec	1	2/3/2022 1:38:25 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/3/2022 1:38:25 PM
Toluene	ND	0.050		mg/Kg	1	2/3/2022 1:38:25 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/3/2022 1:38:25 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/3/2022 1:38:25 PM
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	2/3/2022 1:38:25 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	1000	61		mg/Kg	20	2/5/2022 12:39:58 AM

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

<b>Qualifiers:</b>	* 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 **2202002**

Date Reported: 2/9/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG Resources

**Client Sample ID:** BH-12

**Project:** Jackson B 33

**Collection Date:** 1/31/2022 11:50:00 AM

**Lab ID:** 2202002-012

**Matrix:** SOIL

**Received Date:** 2/1/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/3/2022 3:35:43 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/3/2022 3:35:43 AM
Surr: DNOP	90.4	51.1-141		%Rec	1	2/3/2022 3:35:43 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/3/2022 2:01:51 PM
Surr: BFB	110	70-130		%Rec	1	2/3/2022 2:01:51 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/3/2022 2:01:51 PM
Toluene	ND	0.050		mg/Kg	1	2/3/2022 2:01:51 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/3/2022 2:01:51 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/3/2022 2:01:51 PM
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	2/3/2022 2:01:51 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	1600	59		mg/Kg	20	2/5/2022 12:52:23 AM

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

<b>Qualifiers:</b>	* 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 **2202002**

Date Reported: 2/9/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG Resources

**Client Sample ID:** BH-13

**Project:** Jackson B 33

**Collection Date:** 1/31/2022 12:00:00 PM

**Lab ID:** 2202002-013

**Matrix:** SOIL

**Received Date:** 2/1/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/3/2022 3:46:21 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/3/2022 3:46:21 AM
Surr: DNOP	109	51.1-141		%Rec	1	2/3/2022 3:46:21 AM
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/3/2022 2:25:12 PM
Surr: BFB	109	70-130		%Rec	1	2/3/2022 2:25:12 PM
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/3/2022 2:25:12 PM
Toluene	ND	0.050		mg/Kg	1	2/3/2022 2:25:12 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/3/2022 2:25:12 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/3/2022 2:25:12 PM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	2/3/2022 2:25:12 PM
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>LRN</b>
Chloride	2400	150		mg/Kg	50	2/7/2022 3:19:49 AM

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

<b>Qualifiers:</b>	* 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#: 2202002

09-Feb-22

**Client:** EOG Resources

**Project:** Jackson B 33

Sample ID: <b>MB-65372</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65372</b>	RunNo: <b>85611</b>								
Prep Date: <b>2/3/2022</b>	Analysis Date: <b>2/3/2022</b>	SeqNo: <b>3013581</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-65372</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65372</b>	RunNo: <b>85611</b>								
Prep Date: <b>2/3/2022</b>	Analysis Date: <b>2/3/2022</b>	SeqNo: <b>3013582</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.3	90	110			

**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#: 2202002

09-Feb-22

**Client:** EOG Resources

**Project:** Jackson B 33

Sample ID: <b>2202002-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BH-1</b>	Batch ID: <b>65337</b>	RunNo: <b>85590</b>								
Prep Date: <b>2/2/2022</b>	Analysis Date: <b>2/3/2022</b>	SeqNo: <b>3013011</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	74	9.9	49.65	5.886	138	39.3	155			
Surr: DNOP	4.6		4.965		92.8	51.1	141			

Sample ID: <b>2202002-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BH-1</b>	Batch ID: <b>65337</b>	RunNo: <b>85590</b>								
Prep Date: <b>2/2/2022</b>	Analysis Date: <b>2/3/2022</b>	SeqNo: <b>3013012</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.9	49.26	5.886	75.3	39.3	155	53.2	23.4	R
Surr: DNOP	3.8		4.926		77.6	51.1	141	0	0	

Sample ID: <b>LCS-65337</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65337</b>	RunNo: <b>85590</b>								
Prep Date: <b>2/2/2022</b>	Analysis Date: <b>2/3/2022</b>	SeqNo: <b>3013026</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.9	68.9	135			
Surr: DNOP	4.1		5.000		81.4	51.1	141			

Sample ID: <b>MB-65337</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65337</b>	RunNo: <b>85590</b>								
Prep Date: <b>2/2/2022</b>	Analysis Date: <b>2/3/2022</b>	SeqNo: <b>3013028</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		91.8	51.1	141			

**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#: 2202002

09-Feb-22

**Client:** EOG Resources

**Project:** Jackson B 33

Sample ID: <b>mb-65316</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65316</b>	RunNo: <b>85580</b>								
Prep Date: <b>2/1/2022</b>	Analysis Date: <b>2/3/2022</b>	SeqNo: <b>3012262</b>	Units: <b>mg/Kg</b>							
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: <b>ics-65316</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65316</b>	RunNo: <b>85580</b>								
Prep Date: <b>2/1/2022</b>	Analysis Date: <b>2/2/2022</b>	SeqNo: <b>3012263</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.6	78.6	131			
Surr: BFB	1200		1000		117	70	130			

Sample ID: <b>2202002-001ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH-1</b>	Batch ID: <b>65316</b>	RunNo: <b>85580</b>								
Prep Date: <b>2/1/2022</b>	Analysis Date: <b>2/3/2022</b>	SeqNo: <b>3012265</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.8	24.22	0	118	70	130			
Surr: BFB	1200		969.0		121	70	130			

Sample ID: <b>2202002-001amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH-1</b>	Batch ID: <b>65316</b>	RunNo: <b>85580</b>								
Prep Date: <b>2/1/2022</b>	Analysis Date: <b>2/3/2022</b>	SeqNo: <b>3012266</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.9	24.32	0	113	70	130	4.29	20	
Surr: BFB	1200		972.8		124	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#: 2202002

09-Feb-22

**Client:** EOG Resources

**Project:** Jackson B 33

Sample ID: <b>mb-65316</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65316</b>	RunNo: <b>85580</b>								
Prep Date: <b>2/1/2022</b>	Analysis Date: <b>2/3/2022</b>	SeqNo: <b>3012274</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

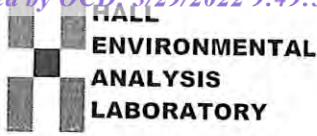
Sample ID: <b>LCS-65316</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65316</b>	RunNo: <b>85580</b>								
Prep Date: <b>2/1/2022</b>	Analysis Date: <b>2/3/2022</b>	SeqNo: <b>3012275</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	87.0	80	120			
Toluene	0.91	0.050	1.000	0	91.2	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: <b>2202002-002ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BH-2</b>	Batch ID: <b>65316</b>	RunNo: <b>85580</b>								
Prep Date: <b>2/1/2022</b>	Analysis Date: <b>2/3/2022</b>	SeqNo: <b>3012278</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9737	0	90.0	80	120			
Toluene	0.92	0.049	0.9737	0	94.6	80	120			
Ethylbenzene	0.95	0.049	0.9737	0	97.9	80	120			
Xylenes, Total	2.8	0.097	2.921	0	96.6	80	120			
Surr: 4-Bromofluorobenzene	0.98		0.9737		101	70	130			

Sample ID: <b>2202002-002amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BH-2</b>	Batch ID: <b>65316</b>	RunNo: <b>85580</b>								
Prep Date: <b>2/1/2022</b>	Analysis Date: <b>2/3/2022</b>	SeqNo: <b>3012279</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	0.9901	0	82.3	80	120	7.26	20	
Toluene	0.86	0.050	0.9901	0	87.1	80	120	6.61	20	
Ethylbenzene	0.88	0.050	0.9901	0	88.7	80	120	8.18	20	
Xylenes, Total	2.6	0.099	2.970	0	87.4	80	120	8.38	20	
Surr: 4-Bromofluorobenzene	1.0		0.9901		101	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: chents.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG Resources Work Order Number: 2202002 RcptNo: 1

Received By: Cheyenne Cason 2/1/2022 8:00:00 AM
Completed By: Tracy Casarrubias 2/1/2022 8:23:11 AM
Reviewed By: KPG 2/1/22 2/1/22

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 [ ] No [checked] 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 2/1/22

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. Row 1: 1, -0.2, Good, Yes, [ ], [ ], [ ]

### Chain-of-Custody Record

Client: EOG (Direct Bill to Chase settle)

Mailing Address: 2135 S. Loop 250 Midland, TX 79703

Phone #: (432) 686-0086

email or Fax#: "Becky"

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

Accreditation:  Az Compliance  NELAC  Other

EDD (Type)

Turn-Around Time:

Standard  Rush 5000

Project Name: Jackson B # 33

Project #: 11228405

Project Manager: Becky Haskell @GHD

Sampler: Heath Boyd

On Ice:  Yes  No

# of Coolers: 1

Cooler Temp (including CF): -0.2 -0.2 -0.2 (°C)

Container Type and # 4oz / 1

Preservative Type N/A

HEAL No. 2202002

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
1/31/22	1000	S	BH-1	4oz / 1	N/A	-1
	1010		BH-2			-2
	1020		BH-3			-3
	1030		BH-4			-4
	1040		BH-5			-5
	1050		BH-6			-6
	1100		BH-7			-7
	1110		BH-8			-8
	1120		BH-9			-9
	1130		BH-10			-10
	1140		BH-11			-11
	1150		BH-12			-12

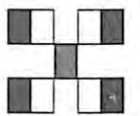
Received by: Becky Haskell Date: 3/29/22 Time: 1500

Relinquished by: [Signature]

Received by: [Signature] Date: 3/29/22 Time: 1500

Relinquished by: [Signature]

Remarks:
<input checked="" type="checkbox"/> BTEX
MTBE / TMB's (8021)
TPH:8015D(GRO / DRO / MRO)
8081 Pesticides/8082 PCB's
EDB (Method 504.1)
PAHs by 8310 or 8270SIMS
RCRA 8 Metals
Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>
8260 (VOA)
8270 (Semi-VOA)
Total Coliform (Present/Absent)
Chloride M 300



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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.

Received by OC Date 02/29/2022 9:49:59 AM

### Chain-of-Custody Record

Client: EOG

(Direct bill to Chase Settlement)

Mailing Address: 2135 S. Loop 250 W. Midland, TX 79703

Phone #: (432) 686-0086

email or Fax#: "Becky"

QA/QC Package:

Standard  Level 4 (Full Validation)

Accreditation:  Az Compliance

NELAC  Other

EDD (Type)

Turn-Around Time:

Standard  Rush 5 am

Project Name:

Jackson B # 33

Project #:

11228405

Project Manager:

Becky Haskal @ GHD.COM

Sampler: Heath Boyd

On Ice:  Yes  No

# of Coolers: 1

Cooler Temp (including C/F): -0.2 - 0 = -0.2 (°C)

Date 3/1/22 Time 1200 Matrix 5 Sample Name BH-13

Container Type and # 4oz. / 1

Preservative Type N/A

HEAL No. 122002

Received by: Becky Haskal Time: 1500

Relinquished by: Becky Haskal

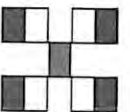
Received by: Becky Haskal Date: 3/1/22 Time: 1500

Via: Per Contm 2/1/22 cpxc

Remarks:

#### Analysis Request

- BTEX / MTBE / TMB's (8021)
- TPH:8015D (GRO / DRO / MRO)
- 8081 Pesticides/8082 PCB's
- EDB (Method 504.1)
- PAHs by 8310 or 8270SIMS
- RCRA 8 Metals
- Cl, F, Br, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>
- 8260 (VOA)
- 8270 (Semi-VOA)
- Total Coliform (Present/Absent)
- Chloride M 300



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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

Pg. 2 of 2



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

February 09, 2022

Becky Haskell  
EOG  
105 South Fourth Street  
Artesia, NM 88210  
TEL:  
FAX

RE: Jackson B 33

OrderNo.: 2202077

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 3 sample(s) on 2/2/2022 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](http://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 2202077

Date Reported: 2/9/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: SW-1

Project: Jackson B 33

Collection Date: 2/1/2022 10:00:00 AM

Lab ID: 2202077-001

Matrix: SOIL

Received Date: 2/2/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	170	61		mg/Kg	20	2/7/2022 1:32:26 PM	65398
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/4/2022 11:37:42 AM	65370
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/4/2022 11:37:42 AM	65370
Surr: DNOP	84.0	51.1-141		%Rec	1	2/4/2022 11:37:42 AM	65370
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/3/2022 2:48:39 PM	65342
Surr: BFB	112	70-130		%Rec	1	2/3/2022 2:48:39 PM	65342
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/3/2022 2:48:39 PM	65342
Toluene	ND	0.049		mg/Kg	1	2/3/2022 2:48:39 PM	65342
Ethylbenzene	ND	0.049		mg/Kg	1	2/3/2022 2:48:39 PM	65342
Xylenes, Total	ND	0.098		mg/Kg	1	2/3/2022 2:48:39 PM	65342
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	2/3/2022 2:48:39 PM	65342

Refer to the QC Summary report and sample login checklist for flagged QC data 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 **2202077**

Date Reported: **2/9/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** SW-2

**Project:** Jackson B 33

**Collection Date:** 2/1/2022 10:10:00 AM

**Lab ID:** 2202077-002

**Matrix:** SOIL

**Received Date:** 2/2/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	380	59		mg/Kg	20	2/7/2022 2:09:39 PM	65398
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/4/2022 11:48:13 AM	65370
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/4/2022 11:48:13 AM	65370
Surr: DNOP	93.4	51.1-141		%Rec	1	2/4/2022 11:48:13 AM	65370
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/3/2022 3:59:02 PM	65342
Surr: BFB	108	70-130		%Rec	1	2/3/2022 3:59:02 PM	65342
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/3/2022 3:59:02 PM	65342
Toluene	ND	0.049		mg/Kg	1	2/3/2022 3:59:02 PM	65342
Ethylbenzene	ND	0.049		mg/Kg	1	2/3/2022 3:59:02 PM	65342
Xylenes, Total	ND	0.097		mg/Kg	1	2/3/2022 3:59:02 PM	65342
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	2/3/2022 3:59:02 PM	65342

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

<b>Qualifiers:</b>	*	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 **2202077**

Date Reported: 2/9/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** EOG

**Client Sample ID:** SW-3

**Project:** Jackson B 33

**Collection Date:** 2/1/2022 10:20:00 AM

**Lab ID:** 2202077-003

**Matrix:** SOIL

**Received Date:** 2/2/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	320	60		mg/Kg	20	2/7/2022 2:22:03 PM	65398
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/4/2022 11:58:46 AM	65370
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/4/2022 11:58:46 AM	65370
Surr: DNOP	78.9	51.1-141		%Rec	1	2/4/2022 11:58:46 AM	65370
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/3/2022 6:20:21 PM	65342
Surr: BFB	109	70-130		%Rec	1	2/3/2022 6:20:21 PM	65342
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/3/2022 6:20:21 PM	65342
Toluene	ND	0.049		mg/Kg	1	2/3/2022 6:20:21 PM	65342
Ethylbenzene	ND	0.049		mg/Kg	1	2/3/2022 6:20:21 PM	65342
Xylenes, Total	ND	0.099		mg/Kg	1	2/3/2022 6:20:21 PM	65342
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	2/3/2022 6:20:21 PM	65342

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

<b>Qualifiers:</b>	*	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#: 2202077

09-Feb-22

**Client:** EOG  
**Project:** Jackson B 33

Sample ID: <b>MB-65398</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65398</b>	RunNo: <b>85658</b>								
Prep Date: <b>2/7/2022</b>	Analysis Date: <b>2/7/2022</b>	SeqNo: <b>3015610</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-65398</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65398</b>	RunNo: <b>85658</b>								
Prep Date: <b>2/7/2022</b>	Analysis Date: <b>2/7/2022</b>	SeqNo: <b>3015611</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.5	90	110			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2202077

09-Feb-22

**Client:** EOG  
**Project:** Jackson B 33

Sample ID: <b>MB-65370</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65370</b>	RunNo: <b>85618</b>								
Prep Date: <b>2/3/2022</b>	Analysis Date: <b>2/4/2022</b>	SeqNo: <b>3013991</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		134	51.1	141			

Sample ID: <b>LCS-65370</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65370</b>	RunNo: <b>85618</b>								
Prep Date: <b>2/3/2022</b>	Analysis Date: <b>2/4/2022</b>	SeqNo: <b>3014001</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.9	68.9	135			
Surr: DNOP	4.7		5.000		94.3	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#: 2202077

09-Feb-22

**Client:** EOG  
**Project:** Jackson B 33

Sample ID: <b>mb-65342</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65342</b>	RunNo: <b>85602</b>								
Prep Date: <b>2/2/2022</b>	Analysis Date: <b>2/3/2022</b>	SeqNo: <b>3013187</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		109	70	130			

Sample ID: <b>ics-65342</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65342</b>	RunNo: <b>85602</b>								
Prep Date: <b>2/2/2022</b>	Analysis Date: <b>2/3/2022</b>	SeqNo: <b>3013188</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	78.6	131			
Surr: BFB	1200		1000		123	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#: 2202077

09-Feb-22

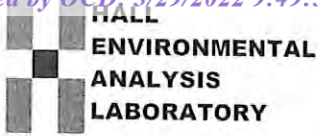
**Client:** EOG  
**Project:** Jackson B 33

Sample ID: <b>mb-65342</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65342</b>	RunNo: <b>85602</b>								
Prep Date: <b>2/2/2022</b>	Analysis Date: <b>2/3/2022</b>	SeqNo: <b>3013223</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		105	70	130			

Sample ID: <b>LCS-65342</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65342</b>	RunNo: <b>85602</b>								
Prep Date: <b>2/2/2022</b>	Analysis Date: <b>2/3/2022</b>	SeqNo: <b>3013224</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.2	80	120			
Toluene	0.93	0.050	1.000	0	92.9	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.7	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

**Qualifiers:**

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

Work Order Number: 2202077

RcptNo: 1

Received By: Sean Livingston 2/2/2022 8:00:00 AM

Completed By: Tracy Casarrubias 2/2/2022 8:32:37 AM

Reviewed By: [Signature]

[Signature]

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: WPA 2/2/22

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. Row 1: 1, 4.5, Good, Yes, [ ], [ ], [ ]

### Chain-of-Custody Record

Client: EOG (Direct Bill to Chase Settle)  
 Mailing Address: 2155 S Loop 250 W, Midland, TX 79703  
 Phone #: (432) 686-0086  
 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: 11228405  
 Project #: Jackson B # 33  
 Project Manager: Becky Haskell  
 Sampler: Heath Boyd  
 On Ice:  Yes  No  
 # of Coolers: 1  
 Cooler Temp (including CF): 4.5 to -4.5 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
2/1/22	1000	S	SW-1	4oz / 1	N/A	2202077 001
1	1010	S	SW-2	1	1	002
X	1020	S	SW-3	1	1	003



**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)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCBs	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
X	X								X Chloride M 300
X	X								X
X	X								X

Remarks:

Received by: Mumma Date: 2/1/22 Time: 1430  
 Received by: Sel Connor Date: 2/2/22 Time: 8:00

Relinquished by: BB  
 Relinquished by: Mumma

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](http://clients.hallenvironmental.com)

February 18, 2022

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

RE: Jackson B 33

OrderNo.: 2202484

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 6 sample(s) on 2/10/2022 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](http://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 white background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Analytical Report**

Lab Order **2202484**

Date Reported: **2/18/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** SW-3

**Project:** Jackson B 33

**Collection Date:** 2/8/2022 3:40:00 PM

**Lab ID:** 2202484-001

**Matrix:** SOIL

**Received Date:** 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	340	60		mg/Kg	20	2/16/2022 1:22:20 AM	65573
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/16/2022 8:27:40 AM	65497
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/16/2022 8:27:40 AM	65497
Surr: DNOP	95.0	51.1-141		%Rec	1	2/16/2022 8:27:40 AM	65497
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/12/2022 1:23:00 AM	65486
Surr: BFB	95.0	70-130		%Rec	1	2/12/2022 1:23:00 AM	65486
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/12/2022 1:23:00 AM	65486
Toluene	ND	0.048		mg/Kg	1	2/12/2022 1:23:00 AM	65486
Ethylbenzene	ND	0.048		mg/Kg	1	2/12/2022 1:23:00 AM	65486
Xylenes, Total	ND	0.095		mg/Kg	1	2/12/2022 1:23:00 AM	65486
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	2/12/2022 1:23:00 AM	65486

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

<b>Qualifiers:</b>	*	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 **2202484**

Date Reported: 2/18/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** SW-4

**Project:** Jackson B 33

**Collection Date:** 2/8/2022 3:45:00 PM

**Lab ID:** 2202484-002

**Matrix:** SOIL

**Received Date:** 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	420	60		mg/Kg	20	2/16/2022 1:59:33 AM	65573
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/16/2022 8:38:11 AM	65497
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/16/2022 8:38:11 AM	65497
Surr: DNOP	95.4	51.1-141		%Rec	1	2/16/2022 8:38:11 AM	65497
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/12/2022 1:43:00 AM	65486
Surr: BFB	98.0	70-130		%Rec	1	2/12/2022 1:43:00 AM	65486
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/12/2022 1:43:00 AM	65486
Toluene	ND	0.049		mg/Kg	1	2/12/2022 1:43:00 AM	65486
Ethylbenzene	ND	0.049		mg/Kg	1	2/12/2022 1:43:00 AM	65486
Xylenes, Total	ND	0.098		mg/Kg	1	2/12/2022 1:43:00 AM	65486
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	1	2/12/2022 1:43:00 AM	65486

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

<b>Qualifiers:</b>	*	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 **2202484**

Date Reported: **2/18/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** SW-5

**Project:** Jackson B 33

**Collection Date:** 2/8/2022 3:50:00 PM

**Lab ID:** 2202484-003

**Matrix:** SOIL

**Received Date:** 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	210	60		mg/Kg	20	2/16/2022 2:36:46 AM	65573
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/16/2022 8:48:46 AM	65497
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/16/2022 8:48:46 AM	65497
Surr: DNOP	92.2	51.1-141		%Rec	1	2/16/2022 8:48:46 AM	65497
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/12/2022 2:03:00 AM	65486
Surr: BFB	100	70-130		%Rec	1	2/12/2022 2:03:00 AM	65486
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.023		mg/Kg	1	2/12/2022 2:03:00 AM	65486
Toluene	ND	0.046		mg/Kg	1	2/12/2022 2:03:00 AM	65486
Ethylbenzene	ND	0.046		mg/Kg	1	2/12/2022 2:03:00 AM	65486
Xylenes, Total	ND	0.092		mg/Kg	1	2/12/2022 2:03:00 AM	65486
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	2/12/2022 2:03:00 AM	65486

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

<b>Qualifiers:</b>	*	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 2202484

Date Reported: 2/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-6

Project: Jackson B 33

Collection Date: 2/8/2022 3:55:00 PM

Lab ID: 2202484-004

Matrix: SOIL

Received Date: 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	170	60		mg/Kg	20	2/16/2022 2:49:10 AM	65573
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/16/2022 8:59:17 AM	65497
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/16/2022 8:59:17 AM	65497
Surr: DNOP	93.8	51.1-141		%Rec	1	2/16/2022 8:59:17 AM	65497
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/12/2022 2:22:00 AM	65486
Surr: BFB	97.2	70-130		%Rec	1	2/12/2022 2:22:00 AM	65486
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/12/2022 2:22:00 AM	65486
Toluene	ND	0.048		mg/Kg	1	2/12/2022 2:22:00 AM	65486
Ethylbenzene	ND	0.048		mg/Kg	1	2/12/2022 2:22:00 AM	65486
Xylenes, Total	ND	0.096		mg/Kg	1	2/12/2022 2:22:00 AM	65486
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	2/12/2022 2:22:00 AM	65486

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

Page 4 of 10

**Analytical Report**

Lab Order **2202484**

Date Reported: **2/18/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** SW-7

**Project:** Jackson B 33

**Collection Date:** 2/8/2022 4:00:00 PM

**Lab ID:** 2202484-005

**Matrix:** SOIL

**Received Date:** 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	63	59		mg/Kg	20	2/16/2022 3:01:35 AM	65573
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/16/2022 9:09:44 AM	65497
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/16/2022 9:09:44 AM	65497
Surr: DNOP	95.2	51.1-141		%Rec	1	2/16/2022 9:09:44 AM	65497
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/12/2022 2:42:00 AM	65486
Surr: BFB	96.7	70-130		%Rec	1	2/12/2022 2:42:00 AM	65486
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	2/12/2022 2:42:00 AM	65486
Toluene	ND	0.049		mg/Kg	1	2/12/2022 2:42:00 AM	65486
Ethylbenzene	ND	0.049		mg/Kg	1	2/12/2022 2:42:00 AM	65486
Xylenes, Total	ND	0.099		mg/Kg	1	2/12/2022 2:42:00 AM	65486
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	2/12/2022 2:42:00 AM	65486

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

<b>Qualifiers:</b>	*	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 **2202484**

Date Reported: **2/18/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** SW-11

**Project:** Jackson B 33

**Collection Date:** 2/8/2022 4:10:00 PM

**Lab ID:** 2202484-006

**Matrix:** SOIL

**Received Date:** 2/10/2022 8:20:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	78	59		mg/Kg	20	2/16/2022 3:13:59 AM	65573
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/16/2022 9:20:20 AM	65497
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/16/2022 9:20:20 AM	65497
Surr: DNOP	91.7	51.1-141		%Rec	1	2/16/2022 9:20:20 AM	65497
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/12/2022 4:00:00 AM	65486
Surr: BFB	97.0	70-130		%Rec	1	2/12/2022 4:00:00 AM	65486
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/12/2022 4:00:00 AM	65486
Toluene	ND	0.048		mg/Kg	1	2/12/2022 4:00:00 AM	65486
Ethylbenzene	ND	0.048		mg/Kg	1	2/12/2022 4:00:00 AM	65486
Xylenes, Total	ND	0.096		mg/Kg	1	2/12/2022 4:00:00 AM	65486
Surr: 4-Bromofluorobenzene	91.7	70-130		%Rec	1	2/12/2022 4:00:00 AM	65486

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

<b>Qualifiers:</b>	*	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#: 2202484

18-Feb-22

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>LCS-65573</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65573</b>	RunNo: <b>85831</b>								
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3023545</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2202484

18-Feb-22

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>MB-65497</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65497</b>	RunNo: <b>85809</b>								
Prep Date: <b>2/11/2022</b>	Analysis Date: <b>2/14/2022</b>	SeqNo: <b>3022507</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.4	51.1	141			

Sample ID: <b>LCS-65497</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65497</b>	RunNo: <b>85809</b>								
Prep Date: <b>2/11/2022</b>	Analysis Date: <b>2/14/2022</b>	SeqNo: <b>3022508</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.3	68.9	135			
Surr: DNOP	3.9		5.000		78.1	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#: 2202484

18-Feb-22

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>ics-65486</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65486</b>	RunNo: <b>85799</b>								
Prep Date: <b>2/10/2022</b>	Analysis Date: <b>2/11/2022</b>	SeqNo: <b>3021130</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	78.6	131			
Surr: BFB	1100		1000		111	70	130			

Sample ID: <b>mb-65486</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65486</b>	RunNo: <b>85799</b>								
Prep Date: <b>2/10/2022</b>	Analysis Date: <b>2/11/2022</b>	SeqNo: <b>3021131</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		96.4	70	130			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2202484

18-Feb-22

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>ics-65486</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65486</b>	RunNo: <b>85799</b>								
Prep Date: <b>2/10/2022</b>	Analysis Date: <b>2/11/2022</b>	SeqNo: <b>3021256</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	80	120			
Toluene	1.0	0.050	1.000	0	105	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: <b>mb-65486</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65486</b>	RunNo: <b>85799</b>								
Prep Date: <b>2/10/2022</b>	Analysis Date: <b>2/11/2022</b>	SeqNo: <b>3021257</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		90.9	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 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

# 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](mailto:Becky.Haskell@ghd.com)

Turn-Around Time:  
 Standard  Rush 5 Day  
 Project Name: Jackson B #33



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

Project #: 11728405  
 Project Manager:  
 Becky Haskell  
 Tom Larson

Analysis Request

QA/QC Package:  Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  NELAC  Other  
 EDD (Type) \_\_\_\_\_  
 Sampler: Zach Comino Health Boyd  
 On Ice:  Yes  No  
 # of Coolers: 1  
 Cooler Temp (including CF): 2.1 -6 ± 2.1

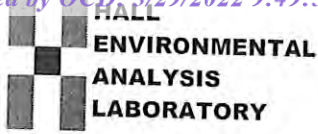
BTEX / MTBE / TMB's (8021)	X
TPH:8015D(GRO / DRO / MRO)	X
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	
<u>Chloride M 300</u>	

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
2/8/22	1540	S	SW-3	4oz SR/1	N/A	001
	1545		SW-4			002
	1550		SW-5			003
	1555		SW-6			004
	1600		SW-7			005
	1610		SW-11			006

Received by: Becky Haskell Via: Hand Date: 2/9/22 Time: 7:30  
 Relinquished by: Becky Haskell  
 Received by: Tom Larson Via: Car Date: 2/9/22 Time: 08:22

Remarks: Please email: [Chase.Settle@eogresources.com](mailto:Chase.Settle@eogresources.com); [Tom.Larson@ghd.com](mailto:Tom.Larson@ghd.com); [Zach.Comino@ghd.com](mailto:Zach.Comino@ghd.com); Along with [Becky.Haskell@ghd.com](mailto:Becky.Haskell@ghd.com) 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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2202484

RcptNo: 1

Received By: Cheyenne Cason 2/10/2022 8:20:00 AM

Handwritten signature

Completed By: Tracy Casarrubias 2/10/2022 9:37:33 AM

Reviewed By: JA 2/10/22

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: KPG 2/10/22

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 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 2.1, Good, Yes, [ ], [ ], [ ]



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

February 18, 2022

Becky Haskell

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Jaskson B 33

OrderNo.: 2202598

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/11/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://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 white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2202598

Date Reported: 2/18/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: BH-13

Project: Jaskson B 33

Collection Date: 2/9/2022 4:50:00 PM

Lab ID: 2202598-001

Matrix: SOIL

Received Date: 2/11/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	1300	60		mg/Kg	20	2/17/2022 9:36:03 PM	65625
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.1		mg/Kg	1	2/15/2022 5:08:56 PM	65519
Motor Oil Range Organics (MRO)	ND	41		mg/Kg	1	2/15/2022 5:08:56 PM	65519
Surr: DNOP	93.3	51.1-141		%Rec	1	2/15/2022 5:08:56 PM	65519
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/14/2022 9:39:00 PM	65505
Surr: BFB	99.6	70-130		%Rec	1	2/14/2022 9:39:00 PM	65505
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/14/2022 9:39:00 PM	65505
Toluene	ND	0.049		mg/Kg	1	2/14/2022 9:39:00 PM	65505
Ethylbenzene	ND	0.049		mg/Kg	1	2/14/2022 9:39:00 PM	65505
Xylenes, Total	ND	0.097		mg/Kg	1	2/14/2022 9:39:00 PM	65505
Surr: 4-Bromofluorobenzene	87.9	70-130		%Rec	1	2/14/2022 9:39:00 PM	65505

Refer to the QC Summary report and sample login checklist for flagged QC data 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#: 2202598

18-Feb-22

**Client:** GHD  
**Project:** Jaskson B 33

Sample ID: <b>MB-65625</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65625</b>	RunNo: <b>85918</b>								
Prep Date: <b>2/17/2022</b>	Analysis Date: <b>2/17/2022</b>	SeqNo: <b>3025738</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-65625</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65625</b>	RunNo: <b>85918</b>								
Prep Date: <b>2/17/2022</b>	Analysis Date: <b>2/17/2022</b>	SeqNo: <b>3025739</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.8	90	110			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2202598

18-Feb-22

**Client:** GHD  
**Project:** Jaskson B 33

Sample ID: <b>LCS-65519</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65519</b>	RunNo: <b>85857</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3023482</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.9	68.9	135			
Surr: DNOP	4.5		5.000		90.2	51.1	141			

Sample ID: <b>MB-65519</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65519</b>	RunNo: <b>85857</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3023484</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	51.1	141			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- 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#: 2202598

18-Feb-22

**Client:** GHD  
**Project:** Jaskson B 33

Sample ID: <b>ics-65505</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65505</b>	RunNo: <b>85820</b>								
Prep Date: <b>2/11/2022</b>	Analysis Date: <b>2/14/2022</b>	SeqNo: <b>3021948</b>	Units: <b>mg/Kg</b>							
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	1200		1000		117	70	130			

Sample ID: <b>mb-65505</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65505</b>	RunNo: <b>85820</b>								
Prep Date: <b>2/11/2022</b>	Analysis Date: <b>2/14/2022</b>	SeqNo: <b>3021949</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	70	130			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2202598

18-Feb-22

**Client:** GHD  
**Project:** Jaskson B 33

Sample ID: <b>ics-65505</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65505</b>	RunNo: <b>85820</b>								
Prep Date: <b>2/11/2022</b>	Analysis Date: <b>2/14/2022</b>	SeqNo: <b>3022000</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.4	80	120			
Toluene	0.95	0.050	1.000	0	94.8	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.3	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.3	70	130			

Sample ID: <b>mb-65505</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65505</b>	RunNo: <b>85820</b>								
Prep Date: <b>2/11/2022</b>	Analysis Date: <b>2/14/2022</b>	SeqNo: <b>3022001</b>	Units: <b>mg/Kg</b>							
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		90.3	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 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

Work Order Number: 2202598

RcptNo: 1

Received By: Tracy Casarrubias 2/11/2022 8:00:00 AM

Completed By: Tracy Casarrubias 2/11/2022 11:51:15 AM

Reviewed By: DAD 2/11/22

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: TMC 2/11/22

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. Row 1: 1, 3.9, Good, Yes, [ ], [ ], [ ]

### Chain-of-Custody Record

Client: GHD  
 Mailing Address:  
 324 W. Main St. Suite 108, Artesia NM 88210  
 Phone #: (505)377-4218  
 email or Fax#: [Becky.Haskell@ghd.com](mailto:Becky.Haskell@ghd.com)  
 QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  
 NELAC  Other  
 EDD (Type)

Turn-Around Time:  
 Standard  Rush  
 Project Name: Jackson B # 53  
 Project #: 11228405  
 Project Manager:  
 Becky Haskell  
 Tom Larson  
 Sampler: Zach Comino  
 On Ice:  Yes  No  
 # of Coolers: 1  
 Cooler Temp (including CF): 39-40-39  
 Container Type and # Jar  
 Preservative Type  
 HEAL No. 72025998  
 5/2/19

**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 / TMB's (8021)	
TPH:8015D(GRO / DRO / MBO)	
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	0

Date	Time	Matrix	Sample Name	Relinquished by:	Relinquished Time:	Received by:	Via:	Date	Time
2/10/22	1900	S	BH-15	<i>[Signature]</i>		<i>[Signature]</i>		2/10/22	8:00
2/10/22	1900			<i>[Signature]</i>		<i>[Signature]</i>		2/10/22	8:00

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

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



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

February 22, 2022

Becky Haskell

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: Jackson B 33

OrderNo.: 2202633

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 34 sample(s) on 2/12/2022 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](http://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 white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**

Lab Order **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** SW-9

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 10:50:00 AM

**Lab ID:** 2202633-001

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	290	60		mg/Kg	20	2/18/2022 3:11:01 AM	65636
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	2/15/2022 5:31:06 PM	65519
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/15/2022 5:31:06 PM	65519
Surr: DNOP	75.7	51.1-141		%Rec	1	2/15/2022 5:31:06 PM	65519
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/14/2022 11:57:00 PM	65510
Surr: BFB	96.8	70-130		%Rec	1	2/14/2022 11:57:00 PM	65510
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	2/14/2022 11:57:00 PM	65510
Toluene	ND	0.050		mg/Kg	1	2/14/2022 11:57:00 PM	65510
Ethylbenzene	ND	0.050		mg/Kg	1	2/14/2022 11:57:00 PM	65510
Xylenes, Total	ND	0.10		mg/Kg	1	2/14/2022 11:57:00 PM	65510
Surr: 4-Bromofluorobenzene	85.1	70-130		%Rec	1	2/14/2022 11:57:00 PM	65510

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

<b>Qualifiers:</b>	*	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 2202633

Date Reported: 2/22/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: SW-10

Project: Jackson B 33

Collection Date: 2/10/2022 10:55:00 AM

Lab ID: 2202633-002

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	600	60		mg/Kg	20	2/18/2022 4:13:03 AM	65636
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	12	9.2		mg/Kg	1	2/15/2022 5:42:10 PM	65519
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/15/2022 5:42:10 PM	65519
Surr: DNOP	79.8	51.1-141		%Rec	1	2/15/2022 5:42:10 PM	65519
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 12:56:00 AM	65510
Surr: BFB	92.6	70-130		%Rec	1	2/15/2022 12:56:00 AM	65510
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/15/2022 12:56:00 AM	65510
Toluene	ND	0.049		mg/Kg	1	2/15/2022 12:56:00 AM	65510
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 12:56:00 AM	65510
Xylenes, Total	ND	0.098		mg/Kg	1	2/15/2022 12:56:00 AM	65510
Surr: 4-Bromofluorobenzene	81.8	70-130		%Rec	1	2/15/2022 12:56:00 AM	65510

Refer to the QC Summary report and sample login checklist for flagged QC data 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 **2202633**

Date Reported: 2/22/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-15

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 12:25:00 PM

**Lab ID:** 2202633-003

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	1100	60		mg/Kg	20	2/18/2022 4:25:27 AM	65636
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/15/2022 5:53:11 PM	65519
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/15/2022 5:53:11 PM	65519
Surr: DNOP	76.8	51.1-141		%Rec	1	2/15/2022 5:53:11 PM	65519
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/15/2022 1:55:00 AM	65510
Surr: BFB	96.1	70-130		%Rec	1	2/15/2022 1:55:00 AM	65510
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/15/2022 1:55:00 AM	65510
Toluene	ND	0.048		mg/Kg	1	2/15/2022 1:55:00 AM	65510
Ethylbenzene	ND	0.048		mg/Kg	1	2/15/2022 1:55:00 AM	65510
Xylenes, Total	ND	0.097		mg/Kg	1	2/15/2022 1:55:00 AM	65510
Surr: 4-Bromofluorobenzene	83.2	70-130		%Rec	1	2/15/2022 1:55:00 AM	65510

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-16

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 12:30:00 PM

**Lab ID:** 2202633-004

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	1500	60		mg/Kg	20	2/18/2022 4:37:51 AM	65636
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/15/2022 6:04:11 PM	65520
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/15/2022 6:04:11 PM	65520
Surr: DNOP	68.8	51.1-141		%Rec	1	2/15/2022 6:04:11 PM	65520
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 2:15:00 AM	65510
Surr: BFB	102	70-130		%Rec	1	2/15/2022 2:15:00 AM	65510
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/15/2022 2:15:00 AM	65510
Toluene	ND	0.049		mg/Kg	1	2/15/2022 2:15:00 AM	65510
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 2:15:00 AM	65510
Xylenes, Total	ND	0.098		mg/Kg	1	2/15/2022 2:15:00 AM	65510
Surr: 4-Bromofluorobenzene	85.9	70-130		%Rec	1	2/15/2022 2:15:00 AM	65510

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-17

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 12:35:00 PM

**Lab ID:** 2202633-005

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	1300	60		mg/Kg	20	2/18/2022 4:50:16 AM	65636
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	11	10		mg/Kg	1	2/15/2022 6:15:10 PM	65520
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/15/2022 6:15:10 PM	65520
Surr: DNOP	73.2	51.1-141		%Rec	1	2/15/2022 6:15:10 PM	65520
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/15/2022 2:34:00 AM	65510
Surr: BFB	97.1	70-130		%Rec	1	2/15/2022 2:34:00 AM	65510
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 2:34:00 AM	65510
Toluene	ND	0.050		mg/Kg	1	2/15/2022 2:34:00 AM	65510
Ethylbenzene	ND	0.050		mg/Kg	1	2/15/2022 2:34:00 AM	65510
Xylenes, Total	ND	0.099		mg/Kg	1	2/15/2022 2:34:00 AM	65510
Surr: 4-Bromofluorobenzene	81.9	70-130		%Rec	1	2/15/2022 2:34:00 AM	65510

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-18

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 12:40:00 PM

**Lab ID:** 2202633-006

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	1000	60		mg/Kg	20	2/18/2022 5:02:40 AM	65636
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	2/15/2022 6:26:07 PM	65520
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/15/2022 6:26:07 PM	65520
Surr: DNOP	72.4	51.1-141		%Rec	1	2/15/2022 6:26:07 PM	65520
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/15/2022 2:54:00 AM	65510
Surr: BFB	92.0	70-130		%Rec	1	2/15/2022 2:54:00 AM	65510
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 2:54:00 AM	65510
Toluene	ND	0.050		mg/Kg	1	2/15/2022 2:54:00 AM	65510
Ethylbenzene	ND	0.050		mg/Kg	1	2/15/2022 2:54:00 AM	65510
Xylenes, Total	ND	0.10		mg/Kg	1	2/15/2022 2:54:00 AM	65510
Surr: 4-Bromofluorobenzene	81.3	70-130		%Rec	1	2/15/2022 2:54:00 AM	65510

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-19

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 12:45:00 PM

**Lab ID:** 2202633-007

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	940	60		mg/Kg	20	2/18/2022 5:15:04 AM	65636
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/15/2022 6:37:02 PM	65520
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/15/2022 6:37:02 PM	65520
Surr: DNOP	83.8	51.1-141		%Rec	1	2/15/2022 6:37:02 PM	65520
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/15/2022 3:13:00 AM	65510
Surr: BFB	95.1	70-130		%Rec	1	2/15/2022 3:13:00 AM	65510
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/15/2022 3:13:00 AM	65510
Toluene	ND	0.048		mg/Kg	1	2/15/2022 3:13:00 AM	65510
Ethylbenzene	ND	0.048		mg/Kg	1	2/15/2022 3:13:00 AM	65510
Xylenes, Total	ND	0.097		mg/Kg	1	2/15/2022 3:13:00 AM	65510
Surr: 4-Bromofluorobenzene	83.5	70-130		%Rec	1	2/15/2022 3:13:00 AM	65510

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-20

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 12:50:00 PM

**Lab ID:** 2202633-008

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	920	60		mg/Kg	20	2/18/2022 5:27:28 AM	65636
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/15/2022 6:47:57 PM	65520
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/15/2022 6:47:57 PM	65520
Surr: DNOP	81.9	51.1-141		%Rec	1	2/15/2022 6:47:57 PM	65520
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 3:33:00 AM	65510
Surr: BFB	92.9	70-130		%Rec	1	2/15/2022 3:33:00 AM	65510
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 3:33:00 AM	65510
Toluene	ND	0.049		mg/Kg	1	2/15/2022 3:33:00 AM	65510
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 3:33:00 AM	65510
Xylenes, Total	ND	0.099		mg/Kg	1	2/15/2022 3:33:00 AM	65510
Surr: 4-Bromofluorobenzene	81.9	70-130		%Rec	1	2/15/2022 3:33:00 AM	65510

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-21

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 12:55:00 PM

**Lab ID:** 2202633-009

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	910	60		mg/Kg	20	2/18/2022 10:38:49 AM	65636
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	30	9.4		mg/Kg	1	2/15/2022 6:58:50 PM	65520
Motor Oil Range Organics (MRO)	50	47		mg/Kg	1	2/15/2022 6:58:50 PM	65520
Surr: DNOP	78.4	51.1-141		%Rec	1	2/15/2022 6:58:50 PM	65520
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/15/2022 3:53:00 AM	65510
Surr: BFB	96.1	70-130		%Rec	1	2/15/2022 3:53:00 AM	65510
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 3:53:00 AM	65510
Toluene	ND	0.050		mg/Kg	1	2/15/2022 3:53:00 AM	65510
Ethylbenzene	ND	0.050		mg/Kg	1	2/15/2022 3:53:00 AM	65510
Xylenes, Total	ND	0.099		mg/Kg	1	2/15/2022 3:53:00 AM	65510
Surr: 4-Bromofluorobenzene	82.5	70-130		%Rec	1	2/15/2022 3:53:00 AM	65510

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-22

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 1:00:00 PM

**Lab ID:** 2202633-010

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	1300	60		mg/Kg	20	2/18/2022 10:51:13 AM	65636
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/15/2022 7:09:41 PM	65520
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/15/2022 7:09:41 PM	65520
Surr: DNOP	85.3	51.1-141		%Rec	1	2/15/2022 7:09:41 PM	65520
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/15/2022 4:12:00 AM	65510
Surr: BFB	97.2	70-130		%Rec	1	2/15/2022 4:12:00 AM	65510
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/15/2022 4:12:00 AM	65510
Toluene	ND	0.048		mg/Kg	1	2/15/2022 4:12:00 AM	65510
Ethylbenzene	ND	0.048		mg/Kg	1	2/15/2022 4:12:00 AM	65510
Xylenes, Total	ND	0.096		mg/Kg	1	2/15/2022 4:12:00 AM	65510
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	1	2/15/2022 4:12:00 AM	65510

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: 2/22/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-23

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 1:10:00 PM

**Lab ID:** 2202633-011

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	1400	60		mg/Kg	20	2/18/2022 11:03:38 AM	65636
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	22	9.6		mg/Kg	1	2/15/2022 7:20:32 PM	65520
Motor Oil Range Organics (MRO)	49	48		mg/Kg	1	2/15/2022 7:20:32 PM	65520
Surr: DNOP	88.2	51.1-141		%Rec	1	2/15/2022 7:20:32 PM	65520
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 4:51:00 AM	65510
Surr: BFB	95.3	70-130		%Rec	1	2/15/2022 4:51:00 AM	65510
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 4:51:00 AM	65510
Toluene	ND	0.049		mg/Kg	1	2/15/2022 4:51:00 AM	65510
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 4:51:00 AM	65510
Xylenes, Total	ND	0.099		mg/Kg	1	2/15/2022 4:51:00 AM	65510
Surr: 4-Bromofluorobenzene	82.6	70-130		%Rec	1	2/15/2022 4:51:00 AM	65510

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-24

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 1:15:00 PM

**Lab ID:** 2202633-012

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	950	60		mg/Kg	20	2/18/2022 11:16:03 AM	65636
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	17	9.5		mg/Kg	1	2/15/2022 7:31:21 PM	65520
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/15/2022 7:31:21 PM	65520
Surr: DNOP	86.4	51.1-141		%Rec	1	2/15/2022 7:31:21 PM	65520
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 5:11:00 AM	65510
Surr: BFB	94.8	70-130		%Rec	1	2/15/2022 5:11:00 AM	65510
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 5:11:00 AM	65510
Toluene	ND	0.049		mg/Kg	1	2/15/2022 5:11:00 AM	65510
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 5:11:00 AM	65510
Xylenes, Total	ND	0.098		mg/Kg	1	2/15/2022 5:11:00 AM	65510
Surr: 4-Bromofluorobenzene	83.7	70-130		%Rec	1	2/15/2022 5:11:00 AM	65510

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-25

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 1:15:00 PM

**Lab ID:** 2202633-013

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	1500	60		mg/Kg	20	2/18/2022 11:53:15 AM	65650
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/15/2022 7:42:07 PM	65520
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/15/2022 7:42:07 PM	65520
Surr: DNOP	89.5	51.1-141		%Rec	1	2/15/2022 7:42:07 PM	65520
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 5:31:00 AM	65510
Surr: BFB	97.1	70-130		%Rec	1	2/15/2022 5:31:00 AM	65510
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/15/2022 5:31:00 AM	65510
Toluene	ND	0.049		mg/Kg	1	2/15/2022 5:31:00 AM	65510
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 5:31:00 AM	65510
Xylenes, Total	ND	0.098		mg/Kg	1	2/15/2022 5:31:00 AM	65510
Surr: 4-Bromofluorobenzene	84.1	70-130		%Rec	1	2/15/2022 5:31:00 AM	65510

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-26

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 1:20:00 PM

**Lab ID:** 2202633-014

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	1300	60		mg/Kg	20	2/18/2022 12:57:28 PM	65650
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/15/2022 7:52:54 PM	65520
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/15/2022 7:52:54 PM	65520
Surr: DNOP	87.9	51.1-141		%Rec	1	2/15/2022 7:52:54 PM	65520
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 5:50:00 AM	65510
Surr: BFB	97.7	70-130		%Rec	1	2/15/2022 5:50:00 AM	65510
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 5:50:00 AM	65510
Toluene	ND	0.049		mg/Kg	1	2/15/2022 5:50:00 AM	65510
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 5:50:00 AM	65510
Xylenes, Total	ND	0.099		mg/Kg	1	2/15/2022 5:50:00 AM	65510
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	2/15/2022 5:50:00 AM	65510

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-27

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 1:25:00 PM

**Lab ID:** 2202633-015

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	1100	59		mg/Kg	20	2/18/2022 1:34:42 PM	65650
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/15/2022 8:03:39 PM	65520
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/15/2022 8:03:39 PM	65520
Surr: DNOP	92.6	51.1-141		%Rec	1	2/15/2022 8:03:39 PM	65520
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 6:10:00 AM	65510
Surr: BFB	94.6	70-130		%Rec	1	2/15/2022 6:10:00 AM	65510
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 6:10:00 AM	65510
Toluene	ND	0.049		mg/Kg	1	2/15/2022 6:10:00 AM	65510
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 6:10:00 AM	65510
Xylenes, Total	ND	0.099		mg/Kg	1	2/15/2022 6:10:00 AM	65510
Surr: 4-Bromofluorobenzene	84.9	70-130		%Rec	1	2/15/2022 6:10:00 AM	65510

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-28

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 2:30:00 PM

**Lab ID:** 2202633-016

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	1100	60		mg/Kg	20	2/18/2022 1:47:06 PM	65650
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/15/2022 8:14:22 PM	65520
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/15/2022 8:14:22 PM	65520
Surr: DNOP	83.6	51.1-141		%Rec	1	2/15/2022 8:14:22 PM	65520
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 6:29:00 AM	65510
Surr: BFB	95.8	70-130		%Rec	1	2/15/2022 6:29:00 AM	65510
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/15/2022 6:29:00 AM	65510
Toluene	ND	0.049		mg/Kg	1	2/15/2022 6:29:00 AM	65510
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 6:29:00 AM	65510
Xylenes, Total	ND	0.097		mg/Kg	1	2/15/2022 6:29:00 AM	65510
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	1	2/15/2022 6:29:00 AM	65510

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

<b>Qualifiers:</b>	*	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 2202633

Date Reported: 2/22/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD

Client Sample ID: BH-29

Project: Jackson B 33

Collection Date: 2/10/2022 2:35:00 PM

Lab ID: 2202633-017

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LRN
Chloride	2200	60		mg/Kg	20	2/18/2022 1:59:30 PM	65650
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/15/2022 8:25:04 PM	65520
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/15/2022 8:25:04 PM	65520
Surr: DNOP	86.2	51.1-141		%Rec	1	2/15/2022 8:25:04 PM	65520
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 6:49:00 AM	65510
Surr: BFB	95.2	70-130		%Rec	1	2/15/2022 6:49:00 AM	65510
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/15/2022 6:49:00 AM	65510
Toluene	ND	0.049		mg/Kg	1	2/15/2022 6:49:00 AM	65510
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 6:49:00 AM	65510
Xylenes, Total	ND	0.098		mg/Kg	1	2/15/2022 6:49:00 AM	65510
Surr: 4-Bromofluorobenzene	81.8	70-130		%Rec	1	2/15/2022 6:49:00 AM	65510

Refer to the QC Summary report and sample login checklist for flagged QC data 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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-30

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 2:40:00 PM

**Lab ID:** 2202633-018

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	2700	150		mg/Kg	50	2/20/2022 11:00:51 PM	65650
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/15/2022 8:35:44 PM	65520
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/15/2022 8:35:44 PM	65520
Surr: DNOP	81.4	51.1-141		%Rec	1	2/15/2022 8:35:44 PM	65520
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 7:08:00 AM	65510
Surr: BFB	103	70-130		%Rec	1	2/15/2022 7:08:00 AM	65510
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 7:08:00 AM	65510
Toluene	ND	0.049		mg/Kg	1	2/15/2022 7:08:00 AM	65510
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 7:08:00 AM	65510
Xylenes, Total	ND	0.099		mg/Kg	1	2/15/2022 7:08:00 AM	65510
Surr: 4-Bromofluorobenzene	87.9	70-130		%Rec	1	2/15/2022 7:08:00 AM	65510

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-31

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 2:45:00 PM

**Lab ID:** 2202633-019

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	3400	150		mg/Kg	50	2/20/2022 11:13:16 PM	65650
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/15/2022 8:46:23 PM	65520
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/15/2022 8:46:23 PM	65520
Surr: DNOP	89.6	51.1-141		%Rec	1	2/15/2022 8:46:23 PM	65520
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 7:28:00 AM	65510
Surr: BFB	108	70-130		%Rec	1	2/15/2022 7:28:00 AM	65510
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 7:28:00 AM	65510
Toluene	ND	0.049		mg/Kg	1	2/15/2022 7:28:00 AM	65510
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 7:28:00 AM	65510
Xylenes, Total	ND	0.099		mg/Kg	1	2/15/2022 7:28:00 AM	65510
Surr: 4-Bromofluorobenzene	93.5	70-130		%Rec	1	2/15/2022 7:28:00 AM	65510

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-32

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 2:50:00 PM

**Lab ID:** 2202633-020

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	1800	60		mg/Kg	20	2/18/2022 3:01:33 PM	65650
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	2/15/2022 8:57:02 PM	65520
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/15/2022 8:57:02 PM	65520
Surr: DNOP	83.9	51.1-141		%Rec	1	2/15/2022 8:57:02 PM	65520
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 7:48:00 AM	65510
Surr: BFB	103	70-130		%Rec	1	2/15/2022 7:48:00 AM	65510
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/15/2022 7:48:00 AM	65510
Toluene	ND	0.049		mg/Kg	1	2/15/2022 7:48:00 AM	65510
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 7:48:00 AM	65510
Xylenes, Total	ND	0.097		mg/Kg	1	2/15/2022 7:48:00 AM	65510
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	2/15/2022 7:48:00 AM	65510

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-33

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 2:55:00 PM

**Lab ID:** 2202633-021

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	2200	60		mg/Kg	20	2/18/2022 3:13:58 PM	65650
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/15/2022 9:07:40 PM	65520
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/15/2022 9:07:40 PM	65520
Surr: DNOP	76.5	51.1-141		%Rec	1	2/15/2022 9:07:40 PM	65520
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/15/2022 11:35:39 AM	65511
Surr: BFB	118	70-130		%Rec	1	2/15/2022 11:35:39 AM	65511
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 11:35:39 AM	65511
Toluene	ND	0.050		mg/Kg	1	2/15/2022 11:35:39 AM	65511
Ethylbenzene	ND	0.050		mg/Kg	1	2/15/2022 11:35:39 AM	65511
Xylenes, Total	ND	0.10		mg/Kg	1	2/15/2022 11:35:39 AM	65511
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	2/15/2022 11:35:39 AM	65511

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: 2/22/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-34

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 3:00:00 PM

**Lab ID:** 2202633-022

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	1400	60		mg/Kg	20	2/18/2022 3:26:23 PM	65650
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/15/2022 9:18:19 PM	65520
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/15/2022 9:18:19 PM	65520
Surr: DNOP	80.2	51.1-141		%Rec	1	2/15/2022 9:18:19 PM	65520
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 12:46:47 PM	65511
Surr: BFB	121	70-130		%Rec	1	2/15/2022 12:46:47 PM	65511
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/15/2022 12:46:47 PM	65511
Toluene	ND	0.049		mg/Kg	1	2/15/2022 12:46:47 PM	65511
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 12:46:47 PM	65511
Xylenes, Total	ND	0.097		mg/Kg	1	2/15/2022 12:46:47 PM	65511
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	2/15/2022 12:46:47 PM	65511

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-35

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 3:05:00 PM

**Lab ID:** 2202633-023

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	2500	150		mg/Kg	50	2/20/2022 11:25:41 PM	65650
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/15/2022 9:28:58 PM	65520
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/15/2022 9:28:58 PM	65520
Surr: DNOP	79.2	51.1-141		%Rec	1	2/15/2022 9:28:58 PM	65520
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 1:58:18 PM	65511
Surr: BFB	118	70-130		%Rec	1	2/15/2022 1:58:18 PM	65511
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 1:58:18 PM	65511
Toluene	ND	0.049		mg/Kg	1	2/15/2022 1:58:18 PM	65511
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 1:58:18 PM	65511
Xylenes, Total	ND	0.098		mg/Kg	1	2/15/2022 1:58:18 PM	65511
Surr: 4-Bromofluorobenzene	109	70-130		%Rec	1	2/15/2022 1:58:18 PM	65511

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-36

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 3:10:00 PM

**Lab ID:** 2202633-024

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	1600	60		mg/Kg	20	2/18/2022 3:51:12 PM	65650
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/16/2022 11:41:17 PM	65521
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/16/2022 11:41:17 PM	65521
Surr: DNOP	122	51.1-141		%Rec	1	2/16/2022 11:41:17 PM	65521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 2:22:07 PM	65511
Surr: BFB	124	70-130		%Rec	1	2/15/2022 2:22:07 PM	65511
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 2:22:07 PM	65511
Toluene	ND	0.049		mg/Kg	1	2/15/2022 2:22:07 PM	65511
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 2:22:07 PM	65511
Xylenes, Total	ND	0.099		mg/Kg	1	2/15/2022 2:22:07 PM	65511
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	2/15/2022 2:22:07 PM	65511

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-37

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 3:15:00 PM

**Lab ID:** 2202633-025

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	5000	300		mg/Kg	100	2/20/2022 11:38:05 PM	65650
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/16/2022 11:51:53 PM	65521
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/16/2022 11:51:53 PM	65521
Surr: DNOP	169	51.1-141	S	%Rec	1	2/16/2022 11:51:53 PM	65521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/15/2022 3:33:45 PM	65511
Surr: BFB	120	70-130		%Rec	1	2/15/2022 3:33:45 PM	65511
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 3:33:45 PM	65511
Toluene	ND	0.050		mg/Kg	1	2/15/2022 3:33:45 PM	65511
Ethylbenzene	ND	0.050		mg/Kg	1	2/15/2022 3:33:45 PM	65511
Xylenes, Total	ND	0.099		mg/Kg	1	2/15/2022 3:33:45 PM	65511
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	2/15/2022 3:33:45 PM	65511

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-38

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 3:20:00 PM

**Lab ID:** 2202633-026

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	2000	60		mg/Kg	20	2/18/2022 4:16:01 PM	65650
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/17/2022 12:02:31 AM	65521
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/17/2022 12:02:31 AM	65521
Surr: DNOP	113	51.1-141		%Rec	1	2/17/2022 12:02:31 AM	65521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/15/2022 3:57:21 PM	65511
Surr: BFB	120	70-130		%Rec	1	2/15/2022 3:57:21 PM	65511
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 3:57:21 PM	65511
Toluene	ND	0.050		mg/Kg	1	2/15/2022 3:57:21 PM	65511
Ethylbenzene	ND	0.050		mg/Kg	1	2/15/2022 3:57:21 PM	65511
Xylenes, Total	ND	0.10		mg/Kg	1	2/15/2022 3:57:21 PM	65511
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	2/15/2022 3:57:21 PM	65511

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-39

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 3:25:00 PM

**Lab ID:** 2202633-027

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	3400	150		mg/Kg	50	2/20/2022 11:50:30 PM	65650
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/17/2022 12:13:11 AM	65521
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/17/2022 12:13:11 AM	65521
Surr: DNOP	111	51.1-141		%Rec	1	2/17/2022 12:13:11 AM	65521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 4:20:55 PM	65511
Surr: BFB	120	70-130		%Rec	1	2/15/2022 4:20:55 PM	65511
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 4:20:55 PM	65511
Toluene	ND	0.049		mg/Kg	1	2/15/2022 4:20:55 PM	65511
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 4:20:55 PM	65511
Xylenes, Total	ND	0.098		mg/Kg	1	2/15/2022 4:20:55 PM	65511
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	2/15/2022 4:20:55 PM	65511

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: 2/22/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-40

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 3:30:00 PM

**Lab ID:** 2202633-028

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	1900	59		mg/Kg	20	2/18/2022 4:40:50 PM	65650
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/17/2022 12:23:48 AM	65521
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/17/2022 12:23:48 AM	65521
Surr: DNOP	157	51.1-141	S	%Rec	1	2/17/2022 12:23:48 AM	65521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/15/2022 4:44:31 PM	65511
Surr: BFB	121	70-130		%Rec	1	2/15/2022 4:44:31 PM	65511
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/15/2022 4:44:31 PM	65511
Toluene	ND	0.048		mg/Kg	1	2/15/2022 4:44:31 PM	65511
Ethylbenzene	ND	0.048		mg/Kg	1	2/15/2022 4:44:31 PM	65511
Xylenes, Total	ND	0.097		mg/Kg	1	2/15/2022 4:44:31 PM	65511
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	2/15/2022 4:44:31 PM	65511

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-41

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 3:35:00 PM

**Lab ID:** 2202633-029

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	2200	60		mg/Kg	20	2/18/2022 4:53:15 PM	65650
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/17/2022 12:34:28 AM	65521
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/17/2022 12:34:28 AM	65521
Surr: DNOP	126	51.1-141		%Rec	1	2/17/2022 12:34:28 AM	65521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/15/2022 5:07:59 PM	65511
Surr: BFB	125	70-130		%Rec	1	2/15/2022 5:07:59 PM	65511
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 5:07:59 PM	65511
Toluene	ND	0.050		mg/Kg	1	2/15/2022 5:07:59 PM	65511
Ethylbenzene	ND	0.050		mg/Kg	1	2/15/2022 5:07:59 PM	65511
Xylenes, Total	ND	0.099		mg/Kg	1	2/15/2022 5:07:59 PM	65511
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	2/15/2022 5:07:59 PM	65511

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: 2/22/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-42

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 3:40:00 PM

**Lab ID:** 2202633-030

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	1600	60		mg/Kg	20	2/18/2022 5:30:30 PM	65650
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	2/17/2022 12:45:10 AM	65521
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	2/17/2022 12:45:10 AM	65521
Surr: DNOP	117	51.1-141		%Rec	1	2/17/2022 12:45:10 AM	65521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/15/2022 5:31:33 PM	65511
Surr: BFB	123	70-130		%Rec	1	2/15/2022 5:31:33 PM	65511
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 5:31:33 PM	65511
Toluene	ND	0.050		mg/Kg	1	2/15/2022 5:31:33 PM	65511
Ethylbenzene	ND	0.050		mg/Kg	1	2/15/2022 5:31:33 PM	65511
Xylenes, Total	ND	0.10		mg/Kg	1	2/15/2022 5:31:33 PM	65511
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	2/15/2022 5:31:33 PM	65511

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: 2/22/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-43

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 3:45:00 PM

**Lab ID:** 2202633-031

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	2300	61		mg/Kg	20	2/18/2022 5:42:54 PM	65650
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/17/2022 12:55:52 AM	65521
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/17/2022 12:55:52 AM	65521
Surr: DNOP	121	51.1-141		%Rec	1	2/17/2022 12:55:52 AM	65521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/15/2022 5:55:08 PM	65511
Surr: BFB	123	70-130		%Rec	1	2/15/2022 5:55:08 PM	65511
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 5:55:08 PM	65511
Toluene	ND	0.050		mg/Kg	1	2/15/2022 5:55:08 PM	65511
Ethylbenzene	ND	0.050		mg/Kg	1	2/15/2022 5:55:08 PM	65511
Xylenes, Total	ND	0.099		mg/Kg	1	2/15/2022 5:55:08 PM	65511
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	2/15/2022 5:55:08 PM	65511

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-44

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 3:50:00 PM

**Lab ID:** 2202633-032

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	1200	60		mg/Kg	20	2/18/2022 5:55:19 PM	65650
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/17/2022 1:06:36 AM	65521
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/17/2022 1:06:36 AM	65521
Surr: DNOP	130	51.1-141		%Rec	1	2/17/2022 1:06:36 AM	65521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/15/2022 6:18:43 PM	65511
Surr: BFB	124	70-130		%Rec	1	2/15/2022 6:18:43 PM	65511
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 6:18:43 PM	65511
Toluene	ND	0.050		mg/Kg	1	2/15/2022 6:18:43 PM	65511
Ethylbenzene	ND	0.050		mg/Kg	1	2/15/2022 6:18:43 PM	65511
Xylenes, Total	ND	0.099		mg/Kg	1	2/15/2022 6:18:43 PM	65511
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	2/15/2022 6:18:43 PM	65511

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-45

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 3:55:00 PM

**Lab ID:** 2202633-033

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	950	59		mg/Kg	20	2/18/2022 11:35:34 AM	65651
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	2/17/2022 1:17:17 AM	65521
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	2/17/2022 1:17:17 AM	65521
Surr: DNOP	131	51.1-141		%Rec	1	2/17/2022 1:17:17 AM	65521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/15/2022 6:42:23 PM	65511
Surr: BFB	123	70-130		%Rec	1	2/15/2022 6:42:23 PM	65511
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/15/2022 6:42:23 PM	65511
Toluene	ND	0.048		mg/Kg	1	2/15/2022 6:42:23 PM	65511
Ethylbenzene	ND	0.048		mg/Kg	1	2/15/2022 6:42:23 PM	65511
Xylenes, Total	ND	0.096		mg/Kg	1	2/15/2022 6:42:23 PM	65511
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	2/15/2022 6:42:23 PM	65511

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

<b>Qualifiers:</b>	*	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 **2202633**

Date Reported: **2/22/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD

**Client Sample ID:** BH-46

**Project:** Jackson B 33

**Collection Date:** 2/10/2022 4:00:00 PM

**Lab ID:** 2202633-034

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	760	60		mg/Kg	20	2/18/2022 12:12:34 PM	65651
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	2/17/2022 1:28:08 AM	65521
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	2/17/2022 1:28:08 AM	65521
Surr: DNOP	99.4	51.1-141		%Rec	1	2/17/2022 1:28:08 AM	65521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 7:06:00 PM	65511
Surr: BFB	123	70-130		%Rec	1	2/15/2022 7:06:00 PM	65511
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 7:06:00 PM	65511
Toluene	ND	0.049		mg/Kg	1	2/15/2022 7:06:00 PM	65511
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 7:06:00 PM	65511
Xylenes, Total	ND	0.098		mg/Kg	1	2/15/2022 7:06:00 PM	65511
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	2/15/2022 7:06:00 PM	65511

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

<b>Qualifiers:</b>	*	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#: 2202633

22-Feb-22

**Client:** GHD  
**Project:** Jackson B 33

Sample ID: <b>MB-65636</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65636</b>	RunNo: <b>85918</b>								
Prep Date: <b>2/17/2022</b>	Analysis Date: <b>2/18/2022</b>	SeqNo: <b>3025768</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-65636</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65636</b>	RunNo: <b>85918</b>								
Prep Date: <b>2/17/2022</b>	Analysis Date: <b>2/18/2022</b>	SeqNo: <b>3025769</b>	Units: <b>mg/Kg</b>							
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			

Sample ID: <b>MB-65636</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65636</b>	RunNo: <b>85950</b>								
Prep Date: <b>2/17/2022</b>	Analysis Date: <b>2/18/2022</b>	SeqNo: <b>3027284</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-65636</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65636</b>	RunNo: <b>85950</b>								
Prep Date: <b>2/17/2022</b>	Analysis Date: <b>2/18/2022</b>	SeqNo: <b>3027285</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.7	90	110			

Sample ID: <b>MB-65650</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65650</b>	RunNo: <b>85950</b>								
Prep Date: <b>2/18/2022</b>	Analysis Date: <b>2/18/2022</b>	SeqNo: <b>3027290</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-65650</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65650</b>	RunNo: <b>85950</b>								
Prep Date: <b>2/18/2022</b>	Analysis Date: <b>2/18/2022</b>	SeqNo: <b>3027291</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.8	90	110			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2202633

22-Feb-22

**Client:** GHD  
**Project:** Jackson B 33

Sample ID: <b>MB-65651</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65651</b>	RunNo: <b>85952</b>								
Prep Date: <b>2/18/2022</b>	Analysis Date: <b>2/18/2022</b>	SeqNo: <b>3027664</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-65651</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65651</b>	RunNo: <b>85952</b>								
Prep Date: <b>2/18/2022</b>	Analysis Date: <b>2/18/2022</b>	SeqNo: <b>3027665</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.3	90	110			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2202633

22-Feb-22

**Client:** GHD  
**Project:** Jackson B 33

Sample ID: <b>2202633-004AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BH-16</b>	Batch ID: <b>65520</b>	RunNo: <b>85857</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3023461</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	9.9	49.50	5.734	67.4	39.3	155			
Surr: DNOP	3.5		4.950		69.7	51.1	141			

Sample ID: <b>2202633-004AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BH-16</b>	Batch ID: <b>65520</b>	RunNo: <b>85857</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3023462</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	9.7	48.54	5.734	63.9	39.3	155	6.10	23.4	
Surr: DNOP	3.3		4.854		67.6	51.1	141	0	0	

Sample ID: <b>LCS-65519</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65519</b>	RunNo: <b>85857</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3023482</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.9	68.9	135			
Surr: DNOP	4.5		5.000		90.2	51.1	141			

Sample ID: <b>LCS-65520</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65520</b>	RunNo: <b>85857</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3023483</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.2	68.9	135			
Surr: DNOP	4.6		5.000		91.4	51.1	141			

Sample ID: <b>MB-65519</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65519</b>	RunNo: <b>85857</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3023484</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	51.1	141			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- 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#: 2202633

22-Feb-22

**Client:** GHD  
**Project:** Jackson B 33

Sample ID: <b>MB-65520</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65520</b>	RunNo: <b>85857</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3023485</b>	Units: <b>mg/Kg</b>							
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: <b>2202633-024AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BH-36</b>	Batch ID: <b>65521</b>	RunNo: <b>85892</b>								
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/17/2022</b>	SeqNo: <b>3024643</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.6	47.85	9.279	66.5	39.3	155			
Motor Oil Range Organics (MRO)	ND	48		31.46	0	0	0			
Surr: DNOP	3.4		4.785		71.5	51.1	141			

Sample ID: <b>2202633-024AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BH-36</b>	Batch ID: <b>65521</b>	RunNo: <b>85892</b>								
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/17/2022</b>	SeqNo: <b>3024644</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	69	8.9	44.72	9.279	134	39.3	155	50.9	23.4	R
Surr: DNOP	3.9		4.472		87.8	51.1	141	0	0	

Sample ID: <b>LCS-65521</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65521</b>	RunNo: <b>85892</b>								
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/16/2022</b>	SeqNo: <b>3024740</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	111	68.9	135			
Surr: DNOP	5.5		5.000		110	51.1	141			

Sample ID: <b>LCS-65557</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65557</b>	RunNo: <b>85892</b>								
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/16/2022</b>	SeqNo: <b>3024742</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.1		5.000		82.2	51.1	141			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2202633

22-Feb-22

**Client:** GHD  
**Project:** Jackson B 33

Sample ID: <b>LCS-65563</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>65563</b>		RunNo: <b>85892</b>							
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/16/2022</b>		SeqNo: <b>3024743</b>				Units: <b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		85.4	51.1	141			

Sample ID: <b>LCS-65565</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>65565</b>		RunNo: <b>85892</b>							
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/16/2022</b>		SeqNo: <b>3024744</b>				Units: <b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		86.8	51.1	141			

Sample ID: <b>MB-65521</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>65521</b>		RunNo: <b>85892</b>							
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/16/2022</b>		SeqNo: <b>3024745</b>				Units: <b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		126	51.1	141			

Sample ID: <b>MB-65557</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>65557</b>		RunNo: <b>85892</b>							
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/16/2022</b>		SeqNo: <b>3024747</b>				Units: <b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.4		10.00		94.0	51.1	141			

Sample ID: <b>MB-65563</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>65563</b>		RunNo: <b>85892</b>							
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/16/2022</b>		SeqNo: <b>3024748</b>				Units: <b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.2		10.00		91.6	51.1	141			

Sample ID: <b>MB-65565</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>65565</b>		RunNo: <b>85892</b>							
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/16/2022</b>		SeqNo: <b>3024749</b>				Units: <b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	51.1	141			

**Qualifiers:**

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- 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#: 2202633

22-Feb-22

**Client:** GHD  
**Project:** Jackson B 33

Sample ID: <b>ics-65510</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>65510</b>		RunNo: <b>85820</b>							
Prep Date: <b>2/12/2022</b>	Analysis Date: <b>2/14/2022</b>		SeqNo: <b>3021971</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	78.6	131			
Surr: BFB	1100		1000		105	70	130			

Sample ID: <b>mb-65510</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>65510</b>		RunNo: <b>85820</b>							
Prep Date: <b>2/12/2022</b>	Analysis Date: <b>2/14/2022</b>		SeqNo: <b>3021972</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		92.8	70	130			

Sample ID: <b>2202633-001ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>SW-9</b>	Batch ID: <b>65510</b>		RunNo: <b>85820</b>							
Prep Date: <b>2/12/2022</b>	Analysis Date: <b>2/15/2022</b>		SeqNo: <b>3021974</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.61	0	102	70	130			
Surr: BFB	1100		984.3		111	70	130			

Sample ID: <b>2202633-001amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>SW-9</b>	Batch ID: <b>65510</b>		RunNo: <b>85820</b>							
Prep Date: <b>2/12/2022</b>	Analysis Date: <b>2/15/2022</b>		SeqNo: <b>3021975</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.9	24.32	0	109	70	130	5.59	20	
Surr: BFB	1100		972.8		114	70	130	0	0	

Sample ID: <b>mb-65511</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>65511</b>		RunNo: <b>85848</b>							
Prep Date: <b>2/12/2022</b>	Analysis Date: <b>2/15/2022</b>		SeqNo: <b>3022897</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1200		1000		120	70	130			

Sample ID: <b>ics-65511</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>65511</b>		RunNo: <b>85848</b>							
Prep Date: <b>2/12/2022</b>	Analysis Date: <b>2/15/2022</b>		SeqNo: <b>3022898</b>		Units: <b>mg/Kg</b>					
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

WO#: 2202633

## Hall Environmental Analysis Laboratory, Inc.

22-Feb-22

**Client:** GHD  
**Project:** Jackson B 33

Sample ID: <b>ics-65511</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65511</b>	RunNo: <b>85848</b>								
Prep Date: <b>2/12/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3022898</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	78.6	131			
Surr: BFB	1300		1000		129	70	130			

Sample ID: <b>2202633-021ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH-33</b>	Batch ID: <b>65511</b>	RunNo: <b>85848</b>								
Prep Date: <b>2/12/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3022900</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	24.78	0	105	70	130			
Surr: BFB	1300		991.1		135	70	130			S

Sample ID: <b>2202633-021amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH-33</b>	Batch ID: <b>65511</b>	RunNo: <b>85848</b>								
Prep Date: <b>2/12/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3022901</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.32	0	102	70	130	3.84	20	
Surr: BFB	1300		972.8		132	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#: 2202633

22-Feb-22

**Client:** GHD  
**Project:** Jackson B 33

Sample ID: <b>ics-65510</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65510</b>	RunNo: <b>85820</b>								
Prep Date: <b>2/12/2022</b>	Analysis Date: <b>2/14/2022</b>	SeqNo: <b>3022022</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.0	80	120			
Toluene	0.93	0.050	1.000	0	92.8	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.4	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.1	80	120			
Surr: 4-Bromofluorobenzene	0.83		1.000		82.6	70	130			

Sample ID: <b>mb-65510</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65510</b>	RunNo: <b>85820</b>								
Prep Date: <b>2/12/2022</b>	Analysis Date: <b>2/14/2022</b>	SeqNo: <b>3022023</b>	Units: <b>mg/Kg</b>							
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		81.1	70	130			

Sample ID: <b>2202633-002ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>SW-10</b>	Batch ID: <b>65510</b>	RunNo: <b>85820</b>								
Prep Date: <b>2/12/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3022026</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	0.9901	0	100	80	120			
Toluene	0.99	0.050	0.9901	0	99.5	80	120			
Ethylbenzene	0.99	0.050	0.9901	0	99.6	80	120			
Xylenes, Total	2.9	0.099	2.970	0	98.4	80	120			
Surr: 4-Bromofluorobenzene	0.83		0.9901		83.5	70	130			

Sample ID: <b>2202633-002amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>SW-10</b>	Batch ID: <b>65510</b>	RunNo: <b>85820</b>								
Prep Date: <b>2/12/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3022027</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	0.9814	0	93.8	80	120	7.39	20	
Toluene	0.92	0.049	0.9814	0	93.6	80	120	6.99	20	
Ethylbenzene	0.92	0.049	0.9814	0	93.8	80	120	6.91	20	
Xylenes, Total	2.7	0.098	2.944	0	92.8	80	120	6.80	20	
Surr: 4-Bromofluorobenzene	0.83		0.9814		84.8	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#: 2202633

22-Feb-22

**Client:** GHD  
**Project:** Jackson B 33

Sample ID: <b>mb-65511</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65511</b>	RunNo: <b>85848</b>								
Prep Date: <b>2/12/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3022938</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		111	70	130			

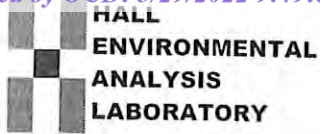
Sample ID: <b>LCS-65511</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65511</b>	RunNo: <b>85848</b>								
Prep Date: <b>2/12/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3022939</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.0	80	120			
Toluene	0.95	0.050	1.000	0	95.3	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.1	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		112	70	130			

Sample ID: <b>2202633-022ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BH-34</b>	Batch ID: <b>65511</b>	RunNo: <b>85848</b>								
Prep Date: <b>2/12/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3022942</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	0.9843	0	99.1	80	120			
Toluene	1.0	0.049	0.9843	0.01285	105	80	120			
Ethylbenzene	1.1	0.049	0.9843	0	108	80	120			
Xylenes, Total	3.2	0.098	2.953	0	108	80	120			
Surr: 4-Bromofluorobenzene	1.1		0.9843		117	70	130			

Sample ID: <b>2202633-022amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BH-34</b>	Batch ID: <b>65511</b>	RunNo: <b>85848</b>								
Prep Date: <b>2/12/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3022943</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.024	0.9785	0	91.7	80	120	8.31	20	
Toluene	0.94	0.049	0.9785	0.01285	94.9	80	120	10.3	20	
Ethylbenzene	0.96	0.049	0.9785	0	97.9	80	120	10.5	20	
Xylenes, Total	2.9	0.098	2.935	0	98.2	80	120	10.3	20	
Surr: 4-Bromofluorobenzene	1.1		0.9785		115	70	130	0	0	

**Qualifiers:**

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



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

# Sample Log-In Check List

Client Name: GHD

Work Order Number: 2202633

RcptNo: 1

Received By: Isaiah Ortiz

2/12/2022 8:55:00 AM

*IOX*

Completed By: Isaiah Ortiz

2/12/2022 9:36:00 AM

*IOX*

Reviewed By: *IO 02/12/2022*

### Chain of Custody

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

### Log In

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

*IO*  
# of preserved bottles checked for pH: 2/12/22  
(<2 or >12 unless noted)  
Adjusted? \_\_\_\_\_  
Checked by: \_\_\_\_\_

### Special Handling (if applicable)

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

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

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.1	Good	Not Present			
2	3.2	Good	Not Present			

Pg. 1 of 3

### Chain-of-Custody Record

Client: GHD  
 Mailing Address: 2135 S. Loop 250 dt.  
Midland, TX 79703  
 Phone #: (432) 686-0086  
 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:  
Jackson B # 33  
 Project #:  
11228405

Project Manager:  
Becky Haskell  
Tom Larson  
 Sampler: Heath Boyd  
 On Ice:  Yes  No  
 # of Coolers: 2 3.1±0  
 Cooler Temp (including CF): 3.2±0 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
2/10/22	1050	S	SW-9	4oz. Jar/1	N/A	2207633
	1055		SW-10			001
	1225		BH-15			002
	1230		BH-16			003
	1235		BH-17			004
	1240		BH-18			005
	1245		BH-19			006
	1250		BH-20			007
	1255		BH-21			008
	1300		BH-22			009
	1310		BH-23			010
	1315		BH-24			011
						012

Date: 2/10/22 Time: 1730 Relinquished by: [Signature]  
 Date: 2/10/22 Time: 1900 Relinquished by: [Signature]  
 Received by: [Signature] Date: 2/11/22 Time: 1000  
 Received by: [Signature] Date: 2/12/22 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

BTEX / MTBE / TMB's (8021)	<input checked="" type="checkbox"/>
TPH:8015D(GRO / DRO / MRO)	<input checked="" type="checkbox"/>
8081 Pesticides/8082 PCB's	<input type="checkbox"/>
EDB (Method 504.1)	<input type="checkbox"/>
PAHs by 8310 or 8270SIMS	<input type="checkbox"/>
RCRA 8 Metals	<input type="checkbox"/>
Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	<input type="checkbox"/>
8260 (VOA)	<input type="checkbox"/>
8270 (Semi-VOA)	<input type="checkbox"/>
Total Coliform (Present/Absent)	<input checked="" type="checkbox"/>

Remarks:

Pg. 2 of 3

### Chain-of-Custody Record

Client: GHD  
 Mailing Address: 2135 S. Loop SW. W. Midland, TX 79703  
 Phone #: (432) 686-0086  
 email or Fax#: Becky.Haskell@GHD.com

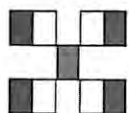
QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation:  AZ Compliance  Other  
 NELAC  Other  
 EDD (Type)

Turn-Around Time:  
 Standard  Rush 5 Days  
 Project Name:  
Jackson B # 33  
 Project #:  
11227405

Project Manager:  
Becky Haskell, Tom Larson  
 Sampler: Heath Boyd  
 On Ice:  Yes  No  
 # of Coolers: 2  3.1±0  3.2±0 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
2/10/22	1315	S	BH-25	4oz Jar/1	N/A	013
	1320		BH-26			014
	1325		BH-27			015
	1430		BH-28			016
	1435		BH-29			017
	1440		BH-30			018
	1445		BH-31			019
	1450		BH-32			020
	1455		BH-33			021
	1500		BH-34			022
	1505		BH-35			023
	1510	X	BH-36			024

Relinquished by: [Signature] Date: 2/10/22 Time: 1730  
 Relinquished by: [Signature] Date: 2/10/22 Time: 1900  
 Received by: [Signature] Date: 2/12/22 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

BTEX / MTBE / TMB's (8021)	TPH: 8015(D)(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
X	X								Chloride m 300
X	X								X
X	X								X
X	X								X
X	X								X
X	X								X
X	X								X
X	X								X
X	X								X
X	X								X
X	X								X
X	X								X
X	X								X
X	X								X
X	X								X

Remarks:

# Chain-of-Custody Record

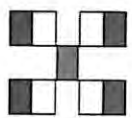
Client: GHD  
 Mailing Address: 2135 S. Loop 250 W. Midland, TX 79703  
 Phone #: (432) 686-0086  
 email or Fax#: Becky.Haskell@GHD.COM  
 QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  Other  
 NELAC  Other  
 EDD (Type)

Turn-Around Time:  
 Standard  Rush 5 Day  
 Project Name:  
Jackson B # 33  
 Project #:  
1128405  
 Project Manager:  
Becky Haskell Tom Carson

Sampler:  
 On Ice:  Yes  No  
 # of Coolers: 1  $3.1 \pm 0$   
 Cooler Temp (including CF): 3.1 ± 0 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	Temp (°C)
2/10/22	1515	S	BH-37	4oz. Jar/1	N/A	2162633	025
	1526		BH-38				026
	1525		BH-39				077
	1530		BH-40				028
	1535		BH-41				029
	1540		BH-42				030
	1545		BH-43				031
	1550		BH-44				032
	1555		BH-45				033
X	1600	P	BH-46	X	X		034

Relinquished by: B Date: 2/10/22 Time: 1730  
 Relinquished by: Becky Haskell Date: 2/11/22 Time: 1000  
 Received by: Tom Carson Date: 2/12/22 Time: 0855



# HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

B. Sof

## Analysis Request

Analysis Request	Response
BTEX / MTBE / TMB's (8021)	X
TPH:8015(D/GRO / DRG / MRO)	X
8081 Pesticides/8082 PCB's	X
EDB (Method 504.1)	X
PAHs by 8310 or 8270SIMS	X
RCRA 8 Metals	X
Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	X
8260 (VOA)	X
8270 (Semi-VOA)	X
Total Coliform (Present/Absent)	X Chloride M 300

Remarks:



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

February 23, 2022

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

RE: Jackson B 33

OrderNo.: 2202635

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 20 sample(s) on 2/12/2022 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](http://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 **2202635**

Date Reported: **2/23/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-47

**Project:** Jackson B 33

**Collection Date:** 2/11/2022 9:45:00 AM

**Lab ID:** 2202635-001

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	220	60		mg/Kg	20	2/18/2022 12:24:55 PM	65651
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/17/2022 1:38:58 AM	65521
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/17/2022 1:38:58 AM	65521
Surr: DNOP	127	51.1-141		%Rec	1	2/17/2022 1:38:58 AM	65521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 8:17:09 PM	65511
Surr: BFB	120	70-130		%Rec	1	2/15/2022 8:17:09 PM	65511
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/15/2022 8:17:09 PM	65511
Toluene	ND	0.049		mg/Kg	1	2/15/2022 8:17:09 PM	65511
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 8:17:09 PM	65511
Xylenes, Total	ND	0.098		mg/Kg	1	2/15/2022 8:17:09 PM	65511
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	2/15/2022 8:17:09 PM	65511

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

<b>Qualifiers:</b>	*	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 **2202635**

Date Reported: **2/23/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-48

**Project:** Jackson B 33

**Collection Date:** 2/11/2022 9:50:00 AM

**Lab ID:** 2202635-002

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	120	60		mg/Kg	20	2/18/2022 4:56:28 PM	65651
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/17/2022 1:49:48 AM	65521
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/17/2022 1:49:48 AM	65521
Surr: DNOP	116	51.1-141		%Rec	1	2/17/2022 1:49:48 AM	65521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 8:40:39 PM	65511
Surr: BFB	122	70-130		%Rec	1	2/15/2022 8:40:39 PM	65511
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/15/2022 8:40:39 PM	65511
Toluene	ND	0.049		mg/Kg	1	2/15/2022 8:40:39 PM	65511
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 8:40:39 PM	65511
Xylenes, Total	ND	0.098		mg/Kg	1	2/15/2022 8:40:39 PM	65511
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	2/15/2022 8:40:39 PM	65511

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

<b>Qualifiers:</b>	*	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 **2202635**

Date Reported: **2/23/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** SW-8

**Project:** Jackson B 33

**Collection Date:** 2/11/2022 9:55:00 AM

**Lab ID:** 2202635-003

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	500	60		mg/Kg	20	2/18/2022 5:08:49 PM	65651
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/17/2022 2:00:35 AM	65521
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/17/2022 2:00:35 AM	65521
Surr: DNOP	139	51.1-141		%Rec	1	2/17/2022 2:00:35 AM	65521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 9:04:14 PM	65511
Surr: BFB	123	70-130		%Rec	1	2/15/2022 9:04:14 PM	65511
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/15/2022 9:04:14 PM	65511
Toluene	ND	0.049		mg/Kg	1	2/15/2022 9:04:14 PM	65511
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 9:04:14 PM	65511
Xylenes, Total	ND	0.097		mg/Kg	1	2/15/2022 9:04:14 PM	65511
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	2/15/2022 9:04:14 PM	65511

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

<b>Qualifiers:</b>	*	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 **2202635**

Date Reported: **2/23/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-49

**Project:** Jackson B 33

**Collection Date:** 2/11/2022 12:10:00 PM

**Lab ID:** 2202635-004

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	2800	150		mg/Kg	50	2/20/2022 10:23:37 PM	65651
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/17/2022 2:11:18 AM	65521
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/17/2022 2:11:18 AM	65521
Surr: DNOP	141	51.1-141		%Rec	1	2/17/2022 2:11:18 AM	65521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 9:28:00 PM	65511
Surr: BFB	123	70-130		%Rec	1	2/15/2022 9:28:00 PM	65511
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 9:28:00 PM	65511
Toluene	ND	0.049		mg/Kg	1	2/15/2022 9:28:00 PM	65511
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 9:28:00 PM	65511
Xylenes, Total	ND	0.099		mg/Kg	1	2/15/2022 9:28:00 PM	65511
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	2/15/2022 9:28:00 PM	65511

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

<b>Qualifiers:</b>	*	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 **2202635**

Date Reported: **2/23/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-50

**Project:** Jackson B 33

**Collection Date:** 2/11/2022 12:15:00 PM

**Lab ID:** 2202635-005

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	1300	60		mg/Kg	20	2/18/2022 5:33:30 PM	65651
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/17/2022 2:21:59 AM	65521
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/17/2022 2:21:59 AM	65521
Surr: DNOP	110	51.1-141		%Rec	1	2/17/2022 2:21:59 AM	65521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 9:51:43 PM	65511
Surr: BFB	120	70-130		%Rec	1	2/15/2022 9:51:43 PM	65511
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 9:51:43 PM	65511
Toluene	ND	0.049		mg/Kg	1	2/15/2022 9:51:43 PM	65511
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 9:51:43 PM	65511
Xylenes, Total	ND	0.098		mg/Kg	1	2/15/2022 9:51:43 PM	65511
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	2/15/2022 9:51:43 PM	65511

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

<b>Qualifiers:</b>	*	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 **2202635**

Date Reported: **2/23/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-51

**Project:** Jackson B 33

**Collection Date:** 2/11/2022 12:20:00 PM

**Lab ID:** 2202635-006

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	980	60		mg/Kg	20	2/18/2022 5:45:51 PM	65651
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/21/2022 10:30:46 AM	65521
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/21/2022 10:30:46 AM	65521
Surr: DNOP	159	51.1-141	S	%Rec	1	2/21/2022 10:30:46 AM	65521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/15/2022 10:15:31 PM	65511
Surr: BFB	121	70-130		%Rec	1	2/15/2022 10:15:31 PM	65511
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/15/2022 10:15:31 PM	65511
Toluene	ND	0.050		mg/Kg	1	2/15/2022 10:15:31 PM	65511
Ethylbenzene	ND	0.050		mg/Kg	1	2/15/2022 10:15:31 PM	65511
Xylenes, Total	ND	0.10		mg/Kg	1	2/15/2022 10:15:31 PM	65511
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	2/15/2022 10:15:31 PM	65511

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

<b>Qualifiers:</b>	*	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 **2202635**

Date Reported: **2/23/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-52

**Project:** Jackson B 33

**Collection Date:** 2/11/2022 12:25:00 PM

**Lab ID:** 2202635-007

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	810	60		mg/Kg	20	2/18/2022 6:22:53 PM	65651
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/17/2022 2:43:13 AM	65550
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/17/2022 2:43:13 AM	65550
Surr: DNOP	130	51.1-141		%Rec	1	2/17/2022 2:43:13 AM	65550
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/16/2022 4:32:37 AM	65533
Surr: BFB	119	70-130		%Rec	1	2/16/2022 4:32:37 AM	65533
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/16/2022 4:32:37 AM	65533
Toluene	ND	0.048		mg/Kg	1	2/16/2022 4:32:37 AM	65533
Ethylbenzene	ND	0.048		mg/Kg	1	2/16/2022 4:32:37 AM	65533
Xylenes, Total	ND	0.096		mg/Kg	1	2/16/2022 4:32:37 AM	65533
Surr: 4-Bromofluorobenzene	111	70-130		%Rec	1	2/16/2022 4:32:37 AM	65533

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

<b>Qualifiers:</b>	*	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 **2202635**

Date Reported: **2/23/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-53

**Project:** Jackson B 33

**Collection Date:** 2/11/2022 12:30:00 PM

**Lab ID:** 2202635-008

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	620	60		mg/Kg	20	2/18/2022 6:35:14 PM	65651
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/17/2022 2:53:48 AM	65550
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/17/2022 2:53:48 AM	65550
Surr: DNOP	107	51.1-141		%Rec	1	2/17/2022 2:53:48 AM	65550
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/16/2022 9:31:37 AM	65533
Surr: BFB	113	70-130		%Rec	1	2/16/2022 9:31:37 AM	65533
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/16/2022 9:31:37 AM	65533
Toluene	ND	0.047		mg/Kg	1	2/16/2022 9:31:37 AM	65533
Ethylbenzene	ND	0.047		mg/Kg	1	2/16/2022 9:31:37 AM	65533
Xylenes, Total	ND	0.094		mg/Kg	1	2/16/2022 9:31:37 AM	65533
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	2/16/2022 9:31:37 AM	65533

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

<b>Qualifiers:</b>	*	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 **2202635**

Date Reported: **2/23/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-54

**Project:** Jackson B 33

**Collection Date:** 2/11/2022 12:35:00 PM

**Lab ID:** 2202635-009

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	2000	59		mg/Kg	20	2/18/2022 6:47:35 PM	65651
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/17/2022 3:04:22 AM	65550
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/17/2022 3:04:22 AM	65550
Surr: DNOP	118	51.1-141		%Rec	1	2/17/2022 3:04:22 AM	65550
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/16/2022 9:55:10 AM	65533
Surr: BFB	112	70-130		%Rec	1	2/16/2022 9:55:10 AM	65533
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/16/2022 9:55:10 AM	65533
Toluene	ND	0.048		mg/Kg	1	2/16/2022 9:55:10 AM	65533
Ethylbenzene	ND	0.048		mg/Kg	1	2/16/2022 9:55:10 AM	65533
Xylenes, Total	ND	0.096		mg/Kg	1	2/16/2022 9:55:10 AM	65533
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	2/16/2022 9:55:10 AM	65533

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

<b>Qualifiers:</b>	*	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 2202635

Date Reported: 2/23/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-55

Project: Jackson B 33

Collection Date: 2/11/2022 12:40:00 PM

Lab ID: 2202635-010

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	2200	60		mg/Kg	20	2/18/2022 6:59:55 PM	65651
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	17	9.5		mg/Kg	1	2/17/2022 3:14:54 AM	65550
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/17/2022 3:14:54 AM	65550
Surr: DNOP	132	51.1-141		%Rec	1	2/17/2022 3:14:54 AM	65550
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/16/2022 10:18:56 AM	65533
Surr: BFB	112	70-130		%Rec	1	2/16/2022 10:18:56 AM	65533
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/16/2022 10:18:56 AM	65533
Toluene	ND	0.050		mg/Kg	1	2/16/2022 10:18:56 AM	65533
Ethylbenzene	ND	0.050		mg/Kg	1	2/16/2022 10:18:56 AM	65533
Xylenes, Total	ND	0.099		mg/Kg	1	2/16/2022 10:18:56 AM	65533
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	2/16/2022 10:18:56 AM	65533

Refer to the QC Summary report and sample login checklist for flagged QC data 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 **2202635**

Date Reported: **2/23/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-56

**Project:** Jackson B 33

**Collection Date:** 2/11/2022 12:45:00 PM

**Lab ID:** 2202635-011

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	2100	60		mg/Kg	20	2/18/2022 7:12:16 PM	65651
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	2/17/2022 3:36:01 AM	65550
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/17/2022 3:36:01 AM	65550
Surr: DNOP	186	51.1-141	S	%Rec	1	2/17/2022 3:36:01 AM	65550
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/16/2022 10:42:51 AM	65533
Surr: BFB	115	70-130		%Rec	1	2/16/2022 10:42:51 AM	65533
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/16/2022 10:42:51 AM	65533
Toluene	ND	0.049		mg/Kg	1	2/16/2022 10:42:51 AM	65533
Ethylbenzene	ND	0.049		mg/Kg	1	2/16/2022 10:42:51 AM	65533
Xylenes, Total	ND	0.097		mg/Kg	1	2/16/2022 10:42:51 AM	65533
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	2/16/2022 10:42:51 AM	65533

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

<b>Qualifiers:</b>	*	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 **2202635**

Date Reported: **2/23/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-57

**Project:** Jackson B 33

**Collection Date:** 2/11/2022 12:50:00 PM

**Lab ID:** 2202635-012

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	930	60		mg/Kg	20	2/18/2022 7:24:36 PM	65651
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/17/2022 3:46:31 AM	65550
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/17/2022 3:46:31 AM	65550
Surr: DNOP	125	51.1-141		%Rec	1	2/17/2022 3:46:31 AM	65550
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/16/2022 11:06:32 AM	65533
Surr: BFB	113	70-130		%Rec	1	2/16/2022 11:06:32 AM	65533
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/16/2022 11:06:32 AM	65533
Toluene	ND	0.048		mg/Kg	1	2/16/2022 11:06:32 AM	65533
Ethylbenzene	ND	0.048		mg/Kg	1	2/16/2022 11:06:32 AM	65533
Xylenes, Total	ND	0.097		mg/Kg	1	2/16/2022 11:06:32 AM	65533
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	2/16/2022 11:06:32 AM	65533

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

<b>Qualifiers:</b>	*	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 **2202635**

Date Reported: **2/23/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-59

**Project:** Jackson B 33

**Collection Date:** 2/11/2022 12:55:00 PM

**Lab ID:** 2202635-013

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	610	60		mg/Kg	20	2/18/2022 7:36:56 PM	65651
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	16	9.7		mg/Kg	1	2/17/2022 3:57:00 AM	65550
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/17/2022 3:57:00 AM	65550
Surr: DNOP	112	51.1-141		%Rec	1	2/17/2022 3:57:00 AM	65550
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/16/2022 11:30:19 AM	65533
Surr: BFB	114	70-130		%Rec	1	2/16/2022 11:30:19 AM	65533
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/16/2022 11:30:19 AM	65533
Toluene	ND	0.047		mg/Kg	1	2/16/2022 11:30:19 AM	65533
Ethylbenzene	ND	0.047		mg/Kg	1	2/16/2022 11:30:19 AM	65533
Xylenes, Total	ND	0.095		mg/Kg	1	2/16/2022 11:30:19 AM	65533
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	2/16/2022 11:30:19 AM	65533

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

<b>Qualifiers:</b>	*	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 **2202635**

Date Reported: **2/23/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-60

**Project:** Jackson B 33

**Collection Date:** 2/11/2022 1:00:00 PM

**Lab ID:** 2202635-014

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	740	60		mg/Kg	20	2/18/2022 7:49:17 PM	65651
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	27	9.7		mg/Kg	1	2/17/2022 4:07:29 AM	65550
Motor Oil Range Organics (MRO)	52	49		mg/Kg	1	2/17/2022 4:07:29 AM	65550
Surr: DNOP	139	51.1-141		%Rec	1	2/17/2022 4:07:29 AM	65550
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/16/2022 11:54:06 AM	65533
Surr: BFB	115	70-130		%Rec	1	2/16/2022 11:54:06 AM	65533
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/16/2022 11:54:06 AM	65533
Toluene	ND	0.048		mg/Kg	1	2/16/2022 11:54:06 AM	65533
Ethylbenzene	ND	0.048		mg/Kg	1	2/16/2022 11:54:06 AM	65533
Xylenes, Total	ND	0.097		mg/Kg	1	2/16/2022 11:54:06 AM	65533
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	2/16/2022 11:54:06 AM	65533

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

<b>Qualifiers:</b>	*	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 **2202635**

Date Reported: **2/23/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-61

**Project:** Jackson B 33

**Collection Date:** 2/11/2022 1:05:00 PM

**Lab ID:** 2202635-015

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	910	59		mg/Kg	20	2/18/2022 8:01:39 PM	65651
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	81	9.5		mg/Kg	1	2/17/2022 4:17:57 AM	65550
Motor Oil Range Organics (MRO)	100	47		mg/Kg	1	2/17/2022 4:17:57 AM	65550
Surr: DNOP	116	51.1-141		%Rec	1	2/17/2022 4:17:57 AM	65550
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/16/2022 12:17:49 PM	65533
Surr: BFB	116	70-130		%Rec	1	2/16/2022 12:17:49 PM	65533
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/16/2022 12:17:49 PM	65533
Toluene	ND	0.048		mg/Kg	1	2/16/2022 12:17:49 PM	65533
Ethylbenzene	ND	0.048		mg/Kg	1	2/16/2022 12:17:49 PM	65533
Xylenes, Total	ND	0.097		mg/Kg	1	2/16/2022 12:17:49 PM	65533
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	2/16/2022 12:17:49 PM	65533

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

<b>Qualifiers:</b>	*	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 **2202635**

Date Reported: **2/23/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-62

**Project:** Jackson B 33

**Collection Date:** 2/11/2022 1:10:00 PM

**Lab ID:** 2202635-016

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	670	60		mg/Kg	20	2/18/2022 8:13:59 PM	65651
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	14	9.9		mg/Kg	1	2/17/2022 4:38:59 AM	65550
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/17/2022 4:38:59 AM	65550
Surr: DNOP	118	51.1-141		%Rec	1	2/17/2022 4:38:59 AM	65550
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/16/2022 12:41:44 PM	65533
Surr: BFB	113	70-130		%Rec	1	2/16/2022 12:41:44 PM	65533
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/16/2022 12:41:44 PM	65533
Toluene	ND	0.049		mg/Kg	1	2/16/2022 12:41:44 PM	65533
Ethylbenzene	ND	0.049		mg/Kg	1	2/16/2022 12:41:44 PM	65533
Xylenes, Total	ND	0.098		mg/Kg	1	2/16/2022 12:41:44 PM	65533
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	2/16/2022 12:41:44 PM	65533

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

<b>Qualifiers:</b>	*	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 **2202635**

Date Reported: **2/23/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-63

**Project:** Jackson B 33

**Collection Date:** 2/11/2022 1:15:00 PM

**Lab ID:** 2202635-017

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	620	60		mg/Kg	20	2/18/2022 8:51:01 PM	65651
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/17/2022 4:49:22 AM	65550
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/17/2022 4:49:22 AM	65550
Surr: DNOP	123	51.1-141		%Rec	1	2/17/2022 4:49:22 AM	65550
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 12:28:00 PM	65537
Surr: BFB	126	70-130		%Rec	1	2/15/2022 12:28:00 PM	65537
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/15/2022 12:28:00 PM	65537
Toluene	ND	0.049		mg/Kg	1	2/15/2022 12:28:00 PM	65537
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 12:28:00 PM	65537
Xylenes, Total	ND	0.097		mg/Kg	1	2/15/2022 12:28:00 PM	65537
Surr: 4-Bromofluorobenzene	87.1	70-130		%Rec	1	2/15/2022 12:28:00 PM	65537

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

<b>Qualifiers:</b>	*	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 **2202635**

Date Reported: **2/23/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-64

**Project:** Jackson B 33

**Collection Date:** 2/11/2022 1:20:00 PM

**Lab ID:** 2202635-018

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	1800	60		mg/Kg	20	2/18/2022 9:03:22 PM	65651
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/17/2022 4:59:44 AM	65550
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/17/2022 4:59:44 AM	65550
Surr: DNOP	128	51.1-141		%Rec	1	2/17/2022 4:59:44 AM	65550
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/15/2022 1:27:00 PM	65537
Surr: BFB	95.6	70-130		%Rec	1	2/15/2022 1:27:00 PM	65537
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/15/2022 1:27:00 PM	65537
Toluene	ND	0.048		mg/Kg	1	2/15/2022 1:27:00 PM	65537
Ethylbenzene	ND	0.048		mg/Kg	1	2/15/2022 1:27:00 PM	65537
Xylenes, Total	ND	0.097		mg/Kg	1	2/15/2022 1:27:00 PM	65537
Surr: 4-Bromofluorobenzene	82.3	70-130		%Rec	1	2/15/2022 1:27:00 PM	65537

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

<b>Qualifiers:</b>	*	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 **2202635**

Date Reported: **2/23/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-65

**Project:** Jackson B 33

**Collection Date:** 2/11/2022 1:25:00 PM

**Lab ID:** 2202635-019

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	230	59		mg/Kg	20	2/18/2022 6:32:34 PM	65653
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/17/2022 5:10:06 AM	65550
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/17/2022 5:10:06 AM	65550
Surr: DNOP	123	51.1-141		%Rec	1	2/17/2022 5:10:06 AM	65550
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/15/2022 2:26:00 PM	65537
Surr: BFB	99.4	70-130		%Rec	1	2/15/2022 2:26:00 PM	65537
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/15/2022 2:26:00 PM	65537
Toluene	ND	0.047		mg/Kg	1	2/15/2022 2:26:00 PM	65537
Ethylbenzene	ND	0.047		mg/Kg	1	2/15/2022 2:26:00 PM	65537
Xylenes, Total	ND	0.095		mg/Kg	1	2/15/2022 2:26:00 PM	65537
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	2/15/2022 2:26:00 PM	65537

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

<b>Qualifiers:</b>	*	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 **2202635**

Date Reported: **2/23/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-58

**Project:** Jackson B 33

**Collection Date:** 2/11/2022 1:30:00 PM

**Lab ID:** 2202635-020

**Matrix:** SOIL

**Received Date:** 2/12/2022 8:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	1100	59		mg/Kg	20	2/18/2022 7:09:48 PM	65653
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	11	9.3		mg/Kg	1	2/17/2022 5:20:28 AM	65550
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/17/2022 5:20:28 AM	65550
Surr: DNOP	114	51.1-141		%Rec	1	2/17/2022 5:20:28 AM	65550
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/15/2022 2:46:00 PM	65537
Surr: BFB	100	70-130		%Rec	1	2/15/2022 2:46:00 PM	65537
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/15/2022 2:46:00 PM	65537
Toluene	ND	0.048		mg/Kg	1	2/15/2022 2:46:00 PM	65537
Ethylbenzene	ND	0.048		mg/Kg	1	2/15/2022 2:46:00 PM	65537
Xylenes, Total	ND	0.096		mg/Kg	1	2/15/2022 2:46:00 PM	65537
Surr: 4-Bromofluorobenzene	87.1	70-130		%Rec	1	2/15/2022 2:46:00 PM	65537

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

<b>Qualifiers:</b>	*	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#: 2202635

23-Feb-22

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>MB-65653</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65653</b>	RunNo: <b>85950</b>								
Prep Date: <b>2/18/2022</b>	Analysis Date: <b>2/18/2022</b>	SeqNo: <b>3027322</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-65653</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65653</b>	RunNo: <b>85950</b>								
Prep Date: <b>2/18/2022</b>	Analysis Date: <b>2/18/2022</b>	SeqNo: <b>3027323</b>	Units: <b>mg/Kg</b>							
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			

Sample ID: <b>MB-65651</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65651</b>	RunNo: <b>85952</b>								
Prep Date: <b>2/18/2022</b>	Analysis Date: <b>2/18/2022</b>	SeqNo: <b>3027664</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-65651</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65651</b>	RunNo: <b>85952</b>								
Prep Date: <b>2/18/2022</b>	Analysis Date: <b>2/18/2022</b>	SeqNo: <b>3027665</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.3	90	110			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2202635

23-Feb-22

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>LCS-65521</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65521</b>	RunNo: <b>85892</b>								
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/16/2022</b>	SeqNo: <b>3024740</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	111	68.9	135			
Surr: DNOP	5.5		5.000		110	51.1	141			

Sample ID: <b>LCS-65550</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65550</b>	RunNo: <b>85892</b>								
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/16/2022</b>	SeqNo: <b>3024741</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	62	10	50.00	0	123	68.9	135			
Surr: DNOP	6.1		5.000		122	51.1	141			

Sample ID: <b>LCS-65557</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65557</b>	RunNo: <b>85892</b>								
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/16/2022</b>	SeqNo: <b>3024742</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.1		5.000		82.2	51.1	141			

Sample ID: <b>LCS-65563</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65563</b>	RunNo: <b>85892</b>								
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/16/2022</b>	SeqNo: <b>3024743</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		85.4	51.1	141			

Sample ID: <b>LCS-65565</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65565</b>	RunNo: <b>85892</b>								
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/16/2022</b>	SeqNo: <b>3024744</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		86.8	51.1	141			

Sample ID: <b>MB-65521</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65521</b>	RunNo: <b>85892</b>								
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/16/2022</b>	SeqNo: <b>3024745</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		126	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#: 2202635

23-Feb-22

**Client:** GHD Midland  
**Project:** Jackson B 33

Sample ID: <b>MB-65550</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65550</b>	RunNo: <b>85892</b>								
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/16/2022</b>	SeqNo: <b>3024746</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		129	51.1	141			

Sample ID: <b>MB-65557</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65557</b>	RunNo: <b>85892</b>								
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/16/2022</b>	SeqNo: <b>3024747</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.4		10.00		94.0	51.1	141			

Sample ID: <b>MB-65563</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65563</b>	RunNo: <b>85892</b>								
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/16/2022</b>	SeqNo: <b>3024748</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.2		10.00		91.6	51.1	141			

Sample ID: <b>MB-65565</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65565</b>	RunNo: <b>85892</b>								
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/16/2022</b>	SeqNo: <b>3024749</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	51.1	141			

Sample ID: <b>MB-65657</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65657</b>	RunNo: <b>85962</b>								
Prep Date: <b>2/18/2022</b>	Analysis Date: <b>2/21/2022</b>	SeqNo: <b>3028001</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		106	51.1	141			

Sample ID: <b>MB-65649</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65649</b>	RunNo: <b>85962</b>								
Prep Date: <b>2/18/2022</b>	Analysis Date: <b>2/21/2022</b>	SeqNo: <b>3028002</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		106	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#: 2202635

23-Feb-22

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>LCS-65649</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65649</b>	RunNo: <b>85962</b>								
Prep Date: <b>2/18/2022</b>	Analysis Date: <b>2/21/2022</b>	SeqNo: <b>3028003</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		107	51.1	141			

Sample ID: <b>LCS-65657</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65657</b>	RunNo: <b>85962</b>								
Prep Date: <b>2/18/2022</b>	Analysis Date: <b>2/21/2022</b>	SeqNo: <b>3028709</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.9		5.000		118	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#: 2202635

23-Feb-22

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>mb-65511</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65511</b>	RunNo: <b>85848</b>								
Prep Date: <b>2/12/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3022897</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1200		1000		120	70	130			

Sample ID: <b>ics-65511</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65511</b>	RunNo: <b>85848</b>								
Prep Date: <b>2/12/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3022898</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	78.6	131			
Surr: BFB	1300		1000		129	70	130			

Sample ID: <b>mb-65533</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65533</b>	RunNo: <b>85848</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/16/2022</b>	SeqNo: <b>3022921</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1200		1000		123	70	130			

Sample ID: <b>ics-65533</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65533</b>	RunNo: <b>85848</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3022922</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	78.6	131			
Surr: BFB	1300		1000		134	70	130			S

Sample ID: <b>2202635-007ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH-52</b>	Batch ID: <b>65533</b>	RunNo: <b>85848</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/16/2022</b>	SeqNo: <b>3022925</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.9	24.49	0	116	70	130			
Surr: BFB	1300		979.4		133	70	130			S

Sample ID: <b>2202635-007amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH-52</b>	Batch ID: <b>65533</b>	RunNo: <b>85848</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/16/2022</b>	SeqNo: <b>3022926</b>	Units: <b>mg/Kg</b>							
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#: 2202635

23-Feb-22

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>2202635-007amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH-52</b>	Batch ID: <b>65533</b>	RunNo: <b>85848</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/16/2022</b>	SeqNo: <b>3022926</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.8	24.08	0	108	70	130	8.56	20	
Surr: BFB	1300		963.4		133	70	130	0	0	S

Sample ID: <b>lcs-65537</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65537</b>	RunNo: <b>85851</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3023024</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.9	78.6	131			
Surr: BFB	1100		1000		113	70	130			

Sample ID: <b>mb-65537</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65537</b>	RunNo: <b>85851</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3023025</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.5	70	130			

Sample ID: <b>2202635-017ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH-63</b>	Batch ID: <b>65537</b>	RunNo: <b>85851</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3023030</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.9	24.37	2.395	103	70	130			
Surr: BFB	1100		974.7		114	70	130			

Sample ID: <b>2202635-017amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH-63</b>	Batch ID: <b>65537</b>	RunNo: <b>85851</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3023031</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.8	23.76	2.395	95.3	70	130	9.74	20	
Surr: BFB	1100		950.6		112	70	130	0	0	

Sample ID: <b>mb-65540</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65540</b>	RunNo: <b>85886</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/16/2022</b>	SeqNo: <b>3024373</b>	Units: <b>%Rec</b>							
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#: 2202635

23-Feb-22

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>mb-65540</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65540</b>	RunNo: <b>85886</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/16/2022</b>	SeqNo: <b>3024373</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		109	70	130			

Sample ID: <b>ics-65540</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65540</b>	RunNo: <b>85886</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/16/2022</b>	SeqNo: <b>3024374</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1300		1000		126	70	130			

Sample ID: <b>mb-65558</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65558</b>	RunNo: <b>85886</b>								
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/17/2022</b>	SeqNo: <b>3024397</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		109	70	130			

Sample ID: <b>ics-65558</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65558</b>	RunNo: <b>85886</b>								
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/17/2022</b>	SeqNo: <b>3024398</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1200		1000		122	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#: 2202635

23-Feb-22

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>mb-65511</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65511</b>	RunNo: <b>85848</b>								
Prep Date: <b>2/12/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3022938</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		111	70	130			

Sample ID: <b>LCS-65511</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65511</b>	RunNo: <b>85848</b>								
Prep Date: <b>2/12/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3022939</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.0	80	120			
Toluene	0.95	0.050	1.000	0	95.3	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.1	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		112	70	130			

Sample ID: <b>mb-65533</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65533</b>	RunNo: <b>85848</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/16/2022</b>	SeqNo: <b>3022962</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		114	70	130			

Sample ID: <b>LCS-65533</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65533</b>	RunNo: <b>85848</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3022963</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.3	80	120			
Toluene	0.97	0.050	1.000	0	97.3	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.4	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		116	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#: 2202635

23-Feb-22

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>ics-65537</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65537</b>	RunNo: <b>85851</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3023077</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.0	80	120			
Toluene	0.89	0.050	1.000	0	89.2	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.3	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.4	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.0	70	130			

Sample ID: <b>mb-65537</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65537</b>	RunNo: <b>85851</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3023078</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		86.2	70	130			

Sample ID: <b>2202635-018ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BH-64</b>	Batch ID: <b>65537</b>	RunNo: <b>85851</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3023084</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.024	0.9671	0	93.2	80	120			
Toluene	0.92	0.048	0.9671	0	94.8	80	120			
Ethylbenzene	0.92	0.048	0.9671	0	94.7	80	120			
Xylenes, Total	2.7	0.097	2.901	0	94.3	80	120			
Surr: 4-Bromofluorobenzene	0.80		0.9671		82.3	70	130			

Sample ID: <b>2202635-018amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BH-64</b>	Batch ID: <b>65537</b>	RunNo: <b>85851</b>								
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/15/2022</b>	SeqNo: <b>3023085</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.024	0.9452	0	84.7	80	120	11.8	20	
Toluene	0.81	0.047	0.9452	0	85.6	80	120	12.4	20	
Ethylbenzene	0.82	0.047	0.9452	0	86.4	80	120	11.5	20	
Xylenes, Total	2.4	0.095	2.836	0	86.0	80	120	11.5	20	
Surr: 4-Bromofluorobenzene	0.80		0.9452		85.1	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#: 2202635

23-Feb-22

**Client:** GHD Midland  
**Project:** Jackson B 33

Sample ID: <b>mb-65540</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>65540</b>		RunNo: <b>85886</b>							
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/16/2022</b>		SeqNo: <b>3024421</b>				Units: <b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: <b>LCS-65540</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>65540</b>		RunNo: <b>85886</b>							
Prep Date: <b>2/14/2022</b>	Analysis Date: <b>2/16/2022</b>		SeqNo: <b>3024422</b>				Units: <b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: <b>mb-65558</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>65558</b>		RunNo: <b>85886</b>							
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/17/2022</b>		SeqNo: <b>3024445</b>				Units: <b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	70	130			

Sample ID: <b>LCS-65558</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>65558</b>		RunNo: <b>85886</b>							
Prep Date: <b>2/15/2022</b>	Analysis Date: <b>2/17/2022</b>		SeqNo: <b>3024446</b>				Units: <b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		107	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



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

Sample Log-In Check List

Client Name: GHD Work Order Number: 2202635 RcptNo: 1

Received By: Isaiah Ortiz 2/12/2022 8:55:00 AM
Completed By: Isaiah Ortiz 2/12/2022 9:40:20 AM
Reviewed By: [Signature] 02/12/2022

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: 2/12/22 (<2 or >12 unless noted)
Adjusted?
Checked by:

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Table with columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 2.4, Good, Not Present.

### Chain-of-Custody Record

Client: GHD  
 Mailing Address: 2135 S. Loop 250 W.  
Midland TX 79703  
 Phone #: (432) 686-0086  
 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:  
Jackson B # 33  
 Project #:  
11228405  
 Project Manager:  
Becky Haskell  
Tom Larson  
 Sampler: Heath Boyd  
 On Ice:  Yes  No  
 # of Coolers: 1  
 Cooler Temp (including CF): 2.4 ± 0.1 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
2/11/22	945	S	BH-47	4oz Jar/1	N/A	7202635
	950		BH-48			001
	955		SW-8			002
	1210		BH-49			003
	1215		BH-50			004
	1220		BH-51			005
	1225		BH-52			006
	1230		BH-53			007
	1235		BH-54			008
	1246		BH-55			009
	1245		BH-56			010
✓	1250	X	BH-57	X	X	011

Received by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: Becky Date: 2/11/22 1500  
 Received by: Tom Larson Date: 2/12/22 0955



### 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 / TMB's (8021)	Y
TPH:8015(D/GRO / DRO / MRO)	Y
8081 Pesticides/8082 PCB's	Y
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	Y
	Chloride @ 500

Remarks:  
 Y

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

Remarks:

BTX / MTBE / TMB's (8021)	HEAL No.	Preservative Type	Container Type and #	Cooler Temp (including CF):	HEAL No.
X	2702635	N/A	4oz Jar/1	2.4 ± 0.5	013
X					014
X					015
X					016
X					017
X					018
X					019
X					020

### Chain-of-Custody Record

Client: GAD  
 Mailing Address: 2135 S. Loop 250 W. Midland, TX 79703  
 Phone #: (432) 686-0086  
 email or Fax#: Becky.Haskell@64P.COM  
 QA/QC Package:  Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  NELAC  Other  
 EDD (Type)

Turn-Around Time:  Standard  Rush  
 Project Name: Sackson IS # 33  
 Project #: 11228405  
 Project Manager: Becky Haskell  
Tom Larson  
 Sampler: Heath Boyd  
 On Ice:  Yes  No  
 # of Coolers: 1  
 Cooler Temp (including CF): 2.4 ± 0.5 (°C)

Date	Time	Matrix	Sample Name	Relinquished by:	Time
2/11/22	1255	S	BH-59	<i>[Signature]</i>	1500
	1300		BH-60	<i>[Signature]</i>	
	1305		BH-61	<i>[Signature]</i>	
	1310		BH-62	<i>[Signature]</i>	
	1315		BH-63	<i>[Signature]</i>	
	1320		BH-64	<i>[Signature]</i>	
	1325		BH-65	<i>[Signature]</i>	
X	1330	X	BH-58	<i>[Signature]</i>	

Received by: [Signature] Date: 2/16/22 Time: 1500  
 Received by: [Signature] Date: 2/17/22 Time: 0855



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

February 25, 2022

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

RE: Jackson B 33

OrderNo.: 2202762

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 17 sample(s) on 2/16/2022 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](http://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 white background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



**Analytical Report**

Lab Order **2202762**

Date Reported: **2/25/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-66

**Project:** Jackson B 33

**Collection Date:** 2/14/2022 10:45:00 AM

**Lab ID:** 2202762-001

**Matrix:** SOIL

**Received Date:** 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	740	60		mg/Kg	20	2/22/2022 5:46:51 PM	65730
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/21/2022 2:46:43 PM	65613
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/21/2022 2:46:43 PM	65613
Surr: DNOP	134	51.1-141		%Rec	1	2/21/2022 2:46:43 PM	65613
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/19/2022 12:42:51 PM	65592
Surr: BFB	108	70-130		%Rec	1	2/19/2022 12:42:51 PM	65592
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/19/2022 12:42:51 PM	65592
Toluene	ND	0.050		mg/Kg	1	2/19/2022 12:42:51 PM	65592
Ethylbenzene	ND	0.050		mg/Kg	1	2/19/2022 12:42:51 PM	65592
Xylenes, Total	ND	0.10		mg/Kg	1	2/19/2022 12:42:51 PM	65592
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	2/19/2022 12:42:51 PM	65592

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

<b>Qualifiers:</b>	*	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 **2202762**

Date Reported: **2/25/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-67

**Project:** Jackson B 33

**Collection Date:** 2/14/2022 10:50:00 AM

**Lab ID:** 2202762-002

**Matrix:** SOIL

**Received Date:** 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	580	60		mg/Kg	20	2/22/2022 6:48:34 PM	65730
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/21/2022 3:11:11 PM	65613
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/21/2022 3:11:11 PM	65613
Surr: DNOP	111	51.1-141		%Rec	1	2/21/2022 3:11:11 PM	65613
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/19/2022 1:30:15 PM	65592
Surr: BFB	107	70-130		%Rec	1	2/19/2022 1:30:15 PM	65592
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/19/2022 1:30:15 PM	65592
Toluene	ND	0.049		mg/Kg	1	2/19/2022 1:30:15 PM	65592
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2022 1:30:15 PM	65592
Xylenes, Total	ND	0.098		mg/Kg	1	2/19/2022 1:30:15 PM	65592
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	2/19/2022 1:30:15 PM	65592

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

<b>Qualifiers:</b>	*	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 2202762

Date Reported: 2/25/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-68

Project: Jackson B 33

Collection Date: 2/14/2022 10:55:00 AM

Lab ID: 2202762-003

Matrix: SOIL

Received Date: 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	1200	60		mg/Kg	20	2/22/2022 7:00:55 PM	65730
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/21/2022 3:35:39 PM	65613
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/21/2022 3:35:39 PM	65613
Surr: DNOP	127	51.1-141		%Rec	1	2/21/2022 3:35:39 PM	65613
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/19/2022 1:53:57 PM	65592
Surr: BFB	108	70-130		%Rec	1	2/19/2022 1:53:57 PM	65592
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	2/19/2022 1:53:57 PM	65592
Toluene	ND	0.048		mg/Kg	1	2/19/2022 1:53:57 PM	65592
Ethylbenzene	ND	0.048		mg/Kg	1	2/19/2022 1:53:57 PM	65592
Xylenes, Total	ND	0.097		mg/Kg	1	2/19/2022 1:53:57 PM	65592
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	2/19/2022 1:53:57 PM	65592

Refer to the QC Summary report and sample login checklist for flagged QC data 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 **2202762**

Date Reported: 2/25/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-69

**Project:** Jackson B 33

**Collection Date:** 2/14/2022 11:00:00 AM

**Lab ID:** 2202762-004

**Matrix:** SOIL

**Received Date:** 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	450	60		mg/Kg	20	2/22/2022 7:13:16 PM	65730
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/21/2022 4:00:03 PM	65613
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/21/2022 4:00:03 PM	65613
Surr: DNOP	104	51.1-141		%Rec	1	2/21/2022 4:00:03 PM	65613
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/19/2022 2:17:37 PM	65592
Surr: BFB	110	70-130		%Rec	1	2/19/2022 2:17:37 PM	65592
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/19/2022 2:17:37 PM	65592
Toluene	ND	0.048		mg/Kg	1	2/19/2022 2:17:37 PM	65592
Ethylbenzene	ND	0.048		mg/Kg	1	2/19/2022 2:17:37 PM	65592
Xylenes, Total	ND	0.095		mg/Kg	1	2/19/2022 2:17:37 PM	65592
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	2/19/2022 2:17:37 PM	65592

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

<b>Qualifiers:</b>	*	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 **2202762**

Date Reported: 2/25/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-70

**Project:** Jackson B 33

**Collection Date:** 2/14/2022 11:05:00 AM

**Lab ID:** 2202762-005

**Matrix:** SOIL

**Received Date:** 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	1700	60		mg/Kg	20	2/22/2022 7:25:36 PM	65730
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	21	9.3		mg/Kg	1	2/21/2022 3:04:47 PM	65613
Motor Oil Range Organics (MRO)	70	47		mg/Kg	1	2/21/2022 3:04:47 PM	65613
Surr: DNOP	81.4	51.1-141		%Rec	1	2/21/2022 3:04:47 PM	65613
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/19/2022 2:41:16 PM	65592
Surr: BFB	107	70-130		%Rec	1	2/19/2022 2:41:16 PM	65592
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/19/2022 2:41:16 PM	65592
Toluene	ND	0.050		mg/Kg	1	2/19/2022 2:41:16 PM	65592
Ethylbenzene	ND	0.050		mg/Kg	1	2/19/2022 2:41:16 PM	65592
Xylenes, Total	ND	0.099		mg/Kg	1	2/19/2022 2:41:16 PM	65592
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	2/19/2022 2:41:16 PM	65592

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

<b>Qualifiers:</b>	*	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 **2202762**

Date Reported: 2/25/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-71

**Project:** Jackson B 33

**Collection Date:** 2/14/2022 11:10:00 AM

**Lab ID:** 2202762-006

**Matrix:** SOIL

**Received Date:** 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	1300	60		mg/Kg	20	2/22/2022 7:37:56 PM	65730
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/21/2022 4:24:27 PM	65613
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/21/2022 4:24:27 PM	65613
Surr: DNOP	113	51.1-141		%Rec	1	2/21/2022 4:24:27 PM	65613
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/19/2022 3:04:52 PM	65592
Surr: BFB	107	70-130		%Rec	1	2/19/2022 3:04:52 PM	65592
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/19/2022 3:04:52 PM	65592
Toluene	ND	0.049		mg/Kg	1	2/19/2022 3:04:52 PM	65592
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2022 3:04:52 PM	65592
Xylenes, Total	ND	0.097		mg/Kg	1	2/19/2022 3:04:52 PM	65592
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/19/2022 3:04:52 PM	65592

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

<b>Qualifiers:</b>	*	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 **2202762**

Date Reported: 2/25/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-72

**Project:** Jackson B 33

**Collection Date:** 2/14/2022 11:15:00 AM

**Lab ID:** 2202762-007

**Matrix:** SOIL

**Received Date:** 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	1200	60		mg/Kg	20	2/22/2022 7:50:16 PM	65730
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	2/19/2022 4:33:49 AM	65613
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	2/19/2022 4:33:49 AM	65613
Surr: DNOP	56.7	51.1-141		%Rec	1	2/19/2022 4:33:49 AM	65613
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/19/2022 3:28:17 PM	65592
Surr: BFB	109	70-130		%Rec	1	2/19/2022 3:28:17 PM	65592
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	2/19/2022 3:28:17 PM	65592
Toluene	ND	0.050		mg/Kg	1	2/19/2022 3:28:17 PM	65592
Ethylbenzene	ND	0.050		mg/Kg	1	2/19/2022 3:28:17 PM	65592
Xylenes, Total	ND	0.099		mg/Kg	1	2/19/2022 3:28:17 PM	65592
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	2/19/2022 3:28:17 PM	65592

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

<b>Qualifiers:</b>	*	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 **2202762**

Date Reported: 2/25/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-73

**Project:** Jackson B 33

**Collection Date:** 2/14/2022 11:20:00 AM

**Lab ID:** 2202762-008

**Matrix:** SOIL

**Received Date:** 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	1400	60		mg/Kg	20	2/22/2022 8:02:38 PM	65730
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/19/2022 4:57:56 AM	65613
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/19/2022 4:57:56 AM	65613
Surr: DNOP	62.2	51.1-141		%Rec	1	2/19/2022 4:57:56 AM	65613
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/19/2022 3:51:54 PM	65592
Surr: BFB	111	70-130		%Rec	1	2/19/2022 3:51:54 PM	65592
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/19/2022 3:51:54 PM	65592
Toluene	ND	0.048		mg/Kg	1	2/19/2022 3:51:54 PM	65592
Ethylbenzene	ND	0.048		mg/Kg	1	2/19/2022 3:51:54 PM	65592
Xylenes, Total	ND	0.096		mg/Kg	1	2/19/2022 3:51:54 PM	65592
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	2/19/2022 3:51:54 PM	65592

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

<b>Qualifiers:</b>	*	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 **2202762**

Date Reported: 2/25/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-74

**Project:** Jackson B 33

**Collection Date:** 2/14/2022 11:25:00 AM

**Lab ID:** 2202762-009

**Matrix:** SOIL

**Received Date:** 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	2200	150		mg/Kg	50	2/23/2022 12:28:06 PM	65730
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/19/2022 5:21:49 AM	65613
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/19/2022 5:21:49 AM	65613
Surr: DNOP	64.4	51.1-141		%Rec	1	2/19/2022 5:21:49 AM	65613
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/19/2022 4:15:37 PM	65592
Surr: BFB	109	70-130		%Rec	1	2/19/2022 4:15:37 PM	65592
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	2/19/2022 4:15:37 PM	65592
Toluene	ND	0.049		mg/Kg	1	2/19/2022 4:15:37 PM	65592
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2022 4:15:37 PM	65592
Xylenes, Total	ND	0.098		mg/Kg	1	2/19/2022 4:15:37 PM	65592
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	2/19/2022 4:15:37 PM	65592

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

<b>Qualifiers:</b>	*	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 **2202762**

Date Reported: **2/25/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-75

**Project:** Jackson B 33

**Collection Date:** 2/14/2022 11:30:00 AM

**Lab ID:** 2202762-010

**Matrix:** SOIL

**Received Date:** 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	3300	150		mg/Kg	50	2/23/2022 1:05:19 PM	65730
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	63	9.7		mg/Kg	1	2/23/2022 9:45:17 AM	65613
Motor Oil Range Organics (MRO)	77	48		mg/Kg	1	2/23/2022 9:45:17 AM	65613
Surr: DNOP	116	51.1-141		%Rec	1	2/23/2022 9:45:17 AM	65613
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/18/2022 8:12:00 PM	65600
Surr: BFB	104	70-130		%Rec	1	2/18/2022 8:12:00 PM	65600
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/18/2022 8:12:00 PM	65600
Toluene	ND	0.049		mg/Kg	1	2/18/2022 8:12:00 PM	65600
Ethylbenzene	ND	0.049		mg/Kg	1	2/18/2022 8:12:00 PM	65600
Xylenes, Total	ND	0.097		mg/Kg	1	2/18/2022 8:12:00 PM	65600
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	1	2/18/2022 8:12:00 PM	65600

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

<b>Qualifiers:</b>	*	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 **2202762**

Date Reported: **2/25/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-76

**Project:** Jackson B 33

**Collection Date:** 2/14/2022 11:35:00 AM

**Lab ID:** 2202762-011

**Matrix:** SOIL

**Received Date:** 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	640	61		mg/Kg	20	2/23/2022 9:54:30 AM	65735
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/19/2022 7:50:47 AM	65620
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/19/2022 7:50:47 AM	65620
Surr: DNOP	99.6	51.1-141		%Rec	1	2/19/2022 7:50:47 AM	65620
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/18/2022 9:11:00 PM	65600
Surr: BFB	99.9	70-130		%Rec	1	2/18/2022 9:11:00 PM	65600
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	2/18/2022 9:11:00 PM	65600
Toluene	ND	0.050		mg/Kg	1	2/18/2022 9:11:00 PM	65600
Ethylbenzene	ND	0.050		mg/Kg	1	2/18/2022 9:11:00 PM	65600
Xylenes, Total	ND	0.099		mg/Kg	1	2/18/2022 9:11:00 PM	65600
Surr: 4-Bromofluorobenzene	88.2	70-130		%Rec	1	2/18/2022 9:11:00 PM	65600

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

<b>Qualifiers:</b>	*	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 **2202762**

Date Reported: **2/25/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-77

**Project:** Jackson B 33

**Collection Date:** 2/14/2022 11:40:00 AM

**Lab ID:** 2202762-012

**Matrix:** SOIL

**Received Date:** 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	610	60		mg/Kg	20	2/23/2022 10:06:56 AM	65735
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	2/19/2022 8:01:24 AM	65620
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	2/19/2022 8:01:24 AM	65620
Surr: DNOP	86.7	51.1-141		%Rec	1	2/19/2022 8:01:24 AM	65620
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/18/2022 10:10:00 PM	65600
Surr: BFB	101	70-130		%Rec	1	2/18/2022 10:10:00 PM	65600
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	2/18/2022 10:10:00 PM	65600
Toluene	ND	0.050		mg/Kg	1	2/18/2022 10:10:00 PM	65600
Ethylbenzene	ND	0.050		mg/Kg	1	2/18/2022 10:10:00 PM	65600
Xylenes, Total	ND	0.10		mg/Kg	1	2/18/2022 10:10:00 PM	65600
Surr: 4-Bromofluorobenzene	86.4	70-130		%Rec	1	2/18/2022 10:10:00 PM	65600

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

<b>Qualifiers:</b>	*	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 **2202762**

Date Reported: 2/25/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-78

**Project:** Jackson B 33

**Collection Date:** 2/14/2022 11:45:00 AM

**Lab ID:** 2202762-013

**Matrix:** SOIL

**Received Date:** 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	210	60		mg/Kg	20	2/23/2022 10:19:20 AM	65735
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/19/2022 8:11:56 AM	65620
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/19/2022 8:11:56 AM	65620
Surr: DNOP	99.0	51.1-141		%Rec	1	2/19/2022 8:11:56 AM	65620
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/18/2022 10:30:00 PM	65600
Surr: BFB	96.1	70-130		%Rec	1	2/18/2022 10:30:00 PM	65600
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/18/2022 10:30:00 PM	65600
Toluene	ND	0.048		mg/Kg	1	2/18/2022 10:30:00 PM	65600
Ethylbenzene	ND	0.048		mg/Kg	1	2/18/2022 10:30:00 PM	65600
Xylenes, Total	ND	0.095		mg/Kg	1	2/18/2022 10:30:00 PM	65600
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	2/18/2022 10:30:00 PM	65600

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

<b>Qualifiers:</b>	*	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 **2202762**

Date Reported: **2/25/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-79

**Project:** Jackson B 33

**Collection Date:** 2/14/2022 11:50:00 AM

**Lab ID:** 2202762-014

**Matrix:** SOIL

**Received Date:** 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	170	60		mg/Kg	20	2/23/2022 10:31:44 AM	65735
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	2/18/2022 4:07:26 PM	65620
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/18/2022 4:07:26 PM	65620
Surr: DNOP	81.5	51.1-141		%Rec	1	2/18/2022 4:07:26 PM	65620
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/18/2022 10:49:00 PM	65600
Surr: BFB	98.0	70-130		%Rec	1	2/18/2022 10:49:00 PM	65600
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/18/2022 10:49:00 PM	65600
Toluene	ND	0.049		mg/Kg	1	2/18/2022 10:49:00 PM	65600
Ethylbenzene	ND	0.049		mg/Kg	1	2/18/2022 10:49:00 PM	65600
Xylenes, Total	ND	0.098		mg/Kg	1	2/18/2022 10:49:00 PM	65600
Surr: 4-Bromofluorobenzene	84.8	70-130		%Rec	1	2/18/2022 10:49:00 PM	65600

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

<b>Qualifiers:</b>	*	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 **2202762**

Date Reported: 2/25/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-80

**Project:** Jackson B 33

**Collection Date:** 2/14/2022 11:55:00 AM

**Lab ID:** 2202762-015

**Matrix:** SOIL

**Received Date:** 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	130	60		mg/Kg	20	2/23/2022 10:44:09 AM	65735
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/18/2022 4:31:34 PM	65620
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/18/2022 4:31:34 PM	65620
Surr: DNOP	78.0	51.1-141		%Rec	1	2/18/2022 4:31:34 PM	65620
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/18/2022 11:09:00 PM	65600
Surr: BFB	99.2	70-130		%Rec	1	2/18/2022 11:09:00 PM	65600
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.024		mg/Kg	1	2/18/2022 11:09:00 PM	65600
Toluene	ND	0.048		mg/Kg	1	2/18/2022 11:09:00 PM	65600
Ethylbenzene	ND	0.048		mg/Kg	1	2/18/2022 11:09:00 PM	65600
Xylenes, Total	ND	0.095		mg/Kg	1	2/18/2022 11:09:00 PM	65600
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	2/18/2022 11:09:00 PM	65600

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

<b>Qualifiers:</b>	*	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 **2202762**

Date Reported: 2/25/2022

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-81

**Project:** Jackson B 33

**Collection Date:** 2/14/2022 12:00:00 PM

**Lab ID:** 2202762-016

**Matrix:** SOIL

**Received Date:** 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	380	60		mg/Kg	20	2/23/2022 10:56:33 AM	65735
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	15	9.9		mg/Kg	1	2/18/2022 4:55:53 PM	65620
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/18/2022 4:55:53 PM	65620
Surr: DNOP	87.3	51.1-141		%Rec	1	2/18/2022 4:55:53 PM	65620
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/18/2022 11:29:00 PM	65600
Surr: BFB	95.8	70-130		%Rec	1	2/18/2022 11:29:00 PM	65600
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.025		mg/Kg	1	2/18/2022 11:29:00 PM	65600
Toluene	ND	0.049		mg/Kg	1	2/18/2022 11:29:00 PM	65600
Ethylbenzene	ND	0.049		mg/Kg	1	2/18/2022 11:29:00 PM	65600
Xylenes, Total	ND	0.098		mg/Kg	1	2/18/2022 11:29:00 PM	65600
Surr: 4-Bromofluorobenzene	85.7	70-130		%Rec	1	2/18/2022 11:29:00 PM	65600

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

<b>Qualifiers:</b>	*	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 **2202762**

Date Reported: **2/25/2022**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** GHD Midland

**Client Sample ID:** BH-82

**Project:** Jackson B 33

**Collection Date:** 2/14/2022 12:05:00 PM

**Lab ID:** 2202762-017

**Matrix:** SOIL

**Received Date:** 2/16/2022 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	1300	60		mg/Kg	20	2/23/2022 11:08:59 AM	65735
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	340	9.4		mg/Kg	1	2/23/2022 9:13:32 AM	65620
Motor Oil Range Organics (MRO)	260	47		mg/Kg	1	2/23/2022 9:13:32 AM	65620
Surr: DNOP	97.8	51.1-141		%Rec	1	2/23/2022 9:13:32 AM	65620
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	2/18/2022 11:48:00 PM	65600
Surr: BFB	103	70-130		%Rec	5	2/18/2022 11:48:00 PM	65600
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.12		mg/Kg	5	2/18/2022 11:48:00 PM	65600
Toluene	ND	0.24		mg/Kg	5	2/18/2022 11:48:00 PM	65600
Ethylbenzene	ND	0.24		mg/Kg	5	2/18/2022 11:48:00 PM	65600
Xylenes, Total	ND	0.48		mg/Kg	5	2/18/2022 11:48:00 PM	65600
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	5	2/18/2022 11:48:00 PM	65600

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

<b>Qualifiers:</b>	*	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#: 2202762

25-Feb-22

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>MB-65730</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65730</b>	RunNo: <b>85991</b>								
Prep Date: <b>2/22/2022</b>	Analysis Date: <b>2/22/2022</b>	SeqNo: <b>3030541</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-65730</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65730</b>	RunNo: <b>85991</b>								
Prep Date: <b>2/22/2022</b>	Analysis Date: <b>2/22/2022</b>	SeqNo: <b>3030542</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.2	90	110			

Sample ID: <b>MB-65735</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65735</b>	RunNo: <b>86027</b>								
Prep Date: <b>2/22/2022</b>	Analysis Date: <b>2/23/2022</b>	SeqNo: <b>3032346</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-65735</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65735</b>	RunNo: <b>86027</b>								
Prep Date: <b>2/22/2022</b>	Analysis Date: <b>2/23/2022</b>	SeqNo: <b>3032347</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.2	90	110			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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#: 2202762

25-Feb-22

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>LCS-65613</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>65613</b>		RunNo: <b>85938</b>							
Prep Date: <b>2/17/2022</b>	Analysis Date: <b>2/18/2022</b>		SeqNo: <b>3026749</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.7	68.9	135			
Surr: DNOP	4.4		5.000		88.8	51.1	141			

Sample ID: <b>LCS-65620</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>65620</b>		RunNo: <b>85938</b>							
Prep Date: <b>2/17/2022</b>	Analysis Date: <b>2/18/2022</b>		SeqNo: <b>3026750</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.0	68.9	135			
Surr: DNOP	4.3		5.000		86.5	51.1	141			

Sample ID: <b>MB-65613</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>65613</b>		RunNo: <b>85938</b>							
Prep Date: <b>2/17/2022</b>	Analysis Date: <b>2/18/2022</b>		SeqNo: <b>3026755</b>		Units: <b>mg/Kg</b>					
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: <b>MB-65620</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>65620</b>		RunNo: <b>85938</b>							
Prep Date: <b>2/17/2022</b>	Analysis Date: <b>2/18/2022</b>		SeqNo: <b>3026756</b>		Units: <b>mg/Kg</b>					
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		99.7	51.1	141			

Sample ID: <b>2202762-011AMS</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>BH-76</b>	Batch ID: <b>65620</b>		RunNo: <b>85936</b>							
Prep Date: <b>2/17/2022</b>	Analysis Date: <b>2/18/2022</b>		SeqNo: <b>3026783</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	9.2	46.21	0	80.8	39.3	155			
Surr: DNOP	3.6		4.621		77.4	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#: 2202762

25-Feb-22

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>2202762-011AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BH-76</b>	Batch ID: <b>65620</b>	RunNo: <b>85936</b>								
Prep Date: <b>2/17/2022</b>	Analysis Date: <b>2/18/2022</b>	SeqNo: <b>3026784</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	33	8.5	42.70	0	76.6	39.3	155	13.2	23.4	
Surr: DNOP	3.4		4.270		79.7	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#: 2202762

25-Feb-22

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>ics-65600</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65600</b>	RunNo: <b>85923</b>								
Prep Date: <b>2/16/2022</b>	Analysis Date: <b>2/18/2022</b>	SeqNo: <b>3026803</b>	Units: <b>mg/Kg</b>							
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	1200		1000		115	70	130			

Sample ID: <b>mb-65600</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65600</b>	RunNo: <b>85923</b>								
Prep Date: <b>2/16/2022</b>	Analysis Date: <b>2/18/2022</b>	SeqNo: <b>3026804</b>	Units: <b>mg/Kg</b>							
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: <b>2202762-010ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH-75</b>	Batch ID: <b>65600</b>	RunNo: <b>85923</b>								
Prep Date: <b>2/16/2022</b>	Analysis Date: <b>2/18/2022</b>	SeqNo: <b>3026806</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.32	0	105	70	130			
Surr: BFB	1100		972.8		115	70	130			

Sample ID: <b>2202762-010amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH-75</b>	Batch ID: <b>65600</b>	RunNo: <b>85923</b>								
Prep Date: <b>2/16/2022</b>	Analysis Date: <b>2/18/2022</b>	SeqNo: <b>3026807</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.44	0	107	70	130	2.75	20	
Surr: BFB	1100		977.5		115	70	130	0	0	

Sample ID: <b>mb-65592</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65592</b>	RunNo: <b>85929</b>								
Prep Date: <b>2/16/2022</b>	Analysis Date: <b>2/19/2022</b>	SeqNo: <b>3026896</b>	Units: <b>mg/Kg</b>							
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: <b>ics-65592</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65592</b>	RunNo: <b>85929</b>								
Prep Date: <b>2/16/2022</b>	Analysis Date: <b>2/19/2022</b>	SeqNo: <b>3026897</b>	Units: <b>mg/Kg</b>							
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#: 2202762

25-Feb-22

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>Ics-65592</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65592</b>	RunNo: <b>85929</b>								
Prep Date: <b>2/16/2022</b>	Analysis Date: <b>2/19/2022</b>	SeqNo: <b>3026897</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.4	78.6	131			
Surr: BFB	1200		1000		115	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#: 2202762

25-Feb-22

**Client:** GHD Midland**Project:** Jackson B 33

Sample ID: <b>ics-65600</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>65600</b>		RunNo: <b>85923</b>							
Prep Date: <b>2/16/2022</b>	Analysis Date: <b>2/18/2022</b>		SeqNo: <b>3026832</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.3	80	120			
Toluene	0.97	0.050	1.000	0	97.3	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.0	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.3	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.5	70	130			

Sample ID: <b>mb-65600</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>65600</b>		RunNo: <b>85923</b>							
Prep Date: <b>2/16/2022</b>	Analysis Date: <b>2/18/2022</b>		SeqNo: <b>3026833</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		90.2	70	130			

Sample ID: <b>2202762-011ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>BH-76</b>	Batch ID: <b>65600</b>		RunNo: <b>85923</b>							
Prep Date: <b>2/16/2022</b>	Analysis Date: <b>2/18/2022</b>		SeqNo: <b>3026836</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	0.9891	0	94.0	80	120			
Toluene	0.95	0.049	0.9891	0	96.3	80	120			
Ethylbenzene	0.97	0.049	0.9891	0	98.0	80	120			
Xylenes, Total	2.9	0.099	2.967	0	98.0	80	120			
Surr: 4-Bromofluorobenzene	0.88		0.9891		89.2	70	130			

Sample ID: <b>2202762-011amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>BH-76</b>	Batch ID: <b>65600</b>		RunNo: <b>85923</b>							
Prep Date: <b>2/16/2022</b>	Analysis Date: <b>2/18/2022</b>		SeqNo: <b>3026837</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	0.9921	0	93.9	80	120	0.164	20	
Toluene	0.97	0.050	0.9921	0	97.7	80	120	1.76	20	
Ethylbenzene	0.99	0.050	0.9921	0	99.7	80	120	2.00	20	
Xylenes, Total	3.0	0.099	2.976	0	99.4	80	120	1.70	20	
Surr: 4-Bromofluorobenzene	0.89		0.9921		89.4	70	130	0	0	

**Qualifiers:**

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E 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#: 2202762

25-Feb-22

**Client:** GHD Midland

**Project:** Jackson B 33

Sample ID: <b>mb-65592</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>65592</b>	RunNo: <b>85929</b>								
Prep Date: <b>2/16/2022</b>	Analysis Date: <b>2/19/2022</b>	SeqNo: <b>3026953</b>	Units: <b>mg/Kg</b>							
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		96.0	70	130			

Sample ID: <b>LCS-65592</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>65592</b>	RunNo: <b>85929</b>								
Prep Date: <b>2/16/2022</b>	Analysis Date: <b>2/19/2022</b>	SeqNo: <b>3026954</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.7	80	120			
Toluene	0.93	0.050	1.000	0	93.5	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.6	70	130			

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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: 2202762

RcptNo: 1

Received By: Cheyenne Cason 2/16/2022 8:05:00 AM

*Handwritten signature*

Completed By: Sean Livingston 2/16/2022 8:40:58 AM

*Handwritten signature*

Reviewed By: IO 2.16.22

**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 2/16/22*

**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	1.0	Good				

### Chain-of-Custody Record

Client: GHD  
 Mailing Address: 2135 S. Loop 250 W. Midland, TX 79703  
 Phone #: (432) 686-0086  
 email or Fax#: Becky.Haske11@GHD.com  
 QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  NELAC  Other  
 EDD (Type) \_\_\_\_\_

Turn-Around Time: 5 Day  
 Standard  Rush  
 Project Name: Jackson B # 33  
 Project #: 11228405  
 Project Manager: Becky Haske11, Tom Larson  
 Sampler: Heath Boyd  
 On Ice:  Yes  No  
 # of Coolers: 1  
 Cooler Temp (including CF): 1.1 - 0.1 = 1.0 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
2/14/22	1045	S	BH-66	4oz. Jar/1	N/A	2202762
	1050		BH-67			001
	1055		BH-68			002
	1100		BH-69			003
	1105		BH-70			004
	1110		BH-71			005
	1115		BH-72			006
	1120		BH-73			007
	1125		BH-74			008
	1130		BH-75			009
	1135		BH-76			010
X	1140	X	BH-77	X	K	011

Date: 2/14/22 Time: 1630 Relinquished by: [Signature]  
 Date: 2/15/22 Time: 1600 Relinquished by: [Signature]  
 Received by: [Signature] Date: 2/15/22 Time: 1715  
 Received by: [Signature] Date: 2/16/22 Time: 0805



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**  
 www.hallenvironmental.com Pg 1 of 2  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107

**Analysis Request**

<input checked="" type="checkbox"/>	BTEX / MTBE / TMBs (8021)	
<input checked="" type="checkbox"/>	TPH:8015D(GRO / DRO / MRO)	
<input type="checkbox"/>	8081 Pesticides/8082 PCB's	
<input type="checkbox"/>	EDB (Method 504.1)	
<input type="checkbox"/>	PAHs by 8310 or 8270SIMS	
<input type="checkbox"/>	RCRA 8 Metals	
<input type="checkbox"/>	Cl, F, Br, NO <sub>2</sub> , NO <sub>3</sub> , PO <sub>4</sub> , SO <sub>4</sub>	
<input type="checkbox"/>	8260 (VOA)	
<input type="checkbox"/>	8270 (Semi-VOA)	
<input type="checkbox"/>	Total Coliform (Present/Absent)	Chloride M 300

Remarks:

### Chain-of-Custody Record

Client: GHD  
 Mailing Address: 2135 S. Loop 250 W.  
Midland, TX 79703  
 Phone #: (432) 686-0086  
 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 AM  
 Project Name:  
Tackson B #33  
 Project #:  
11228405

Project Manager:  
Becky Haskell  
Tom Carson  
 Sampler: Heath Boyd  
 On Ice:  Yes  No  
 # of Coolers: 1  
 Cooler Temp (including CF): 1.1-0.1=1.0 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
2/14/22	1145	S	BH-78	4oz Jar/1	N/A	013
	1501		BH-79			014
	5511		BH-80			015
	0021		BH-81			016
X	1205	X	BH-82	X	X	017

Date: 2/14/22 Time: 1630 Relinquished by: ZB  
 Date: 2/15/22 Time: 1900 Relinquished by: \_\_\_\_\_



### HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com FJ 2 of 2  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107

#### Analysis Request

BTEX / MTBE / TMBs (8021)	TFH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCBs	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO <sub>2</sub> , NO <sub>3</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
X	X								X (Glide M 300)
X	X								X
X	X								X
X	X								X
X	X								X

Remarks:  
 Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: W... Date: 2/15/22 Time: 1715  
 Received by: One Con Date: 2/14/22 Time: 0800

# Appendix E

## Confirmation Sampling Notifications

## Becky Haskell

---

**From:** Chase Settle <Chase\_Settle@eogresources.com>  
**Sent:** Tuesday, January 25, 2022 8:56 AM  
**To:** Zach Comino; Becky Haskell  
**Subject:** FW: Jackson B 33 (nAPP2112353281) Sampling Notification

---

**From:** Tina Huerta <Tina\_Huerta@eogresources.com>  
**Sent:** Monday, January 24, 2022 4:12 PM  
**To:** Robert.Hamlet@state.nm.us; blm\_nm\_cfo\_spill@blm.gov  
**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:** Jackson B 33 (nAPP2112353281) Sampling Notification

Good afternoon,

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

Jackson B 33  
1-17S-30E  
Eddy County, NM  
nAPP2112353281

Sampling will begin at 8:00 a.m. on Monday, January 31, 2022.

Thank you,

*Tina Huerta*  
*Regulatory Specialist*  
*Direct: 575.748.4168*  
*Cell: 575.703.3121*  
*Email: [tina\\_huerta@eogresources.com](mailto:tina_huerta@eogresources.com)*



## Becky Haskell

---

**From:** Chase Settle <Chase\_Settle@eogresources.com>  
**Sent:** Thursday, February 3, 2022 5:51 PM  
**To:** Zach Comino; Becky Haskell  
**Subject:** FW: Jackson B 33 (nAPP2112353281) Sampling Notification

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**From:** Tina Huerta <Tina\_Huerta@eogresources.com>  
**Sent:** Thursday, February 3, 2022 4:41 PM  
**To:** Robert.Hamlet@state.nm.us; blm\_nm\_cfo\_spill@blm.gov  
**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:** Jackson B 33 (nAPP2112353281) Sampling Notification

Good afternoon,

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

Jackson B 33  
F-1-17S-30E  
Eddy County, NM  
nAPP2112353281

Sampling will begin at 12:00 p.m. on Tuesday, February 8, 2022.

Thank you,

*Tina Huerta*  
*Regulatory Specialist*  
*Direct: 575.748.4168*  
*Cell: 575.703.3121*  
*Email: [tina\\_huerta@eogresources.com](mailto:tina_huerta@eogresources.com)*



**Artesia Division**

## Becky Haskell

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**From:** Chase Settle <Chase\_Settle@eogresources.com>  
**Sent:** Wednesday, February 9, 2022 10:25 AM  
**To:** Zach Comino; Becky Haskell  
**Subject:** FW: Jackson B 33 (nAPP2112353281) Sampling Notification

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**From:** Tina Huerta <Tina\_Huerta@eogresources.com>  
**Sent:** Wednesday, February 9, 2022 9:24 AM  
**To:** Robert.Hamlet@state.nm.us; blm\_nm\_cfo\_spill@blm.gov  
**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:** Jackson B 33 (nAPP2112353281) Sampling Notification

Good morning,

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

Jackson B 33  
F-1-17S-30E  
Eddy County, NM  
nAPP2112353281

Sampling will begin at 8:00 a.m. on Monday, February 14, 2022.

Thank you,

*Tina Huerta*  
*Regulatory Specialist*  
*Direct: 575.748.4168*  
*Cell: 575.703.3121*  
*Email: [tina\\_huerta@eogresources.com](mailto:tina_huerta@eogresources.com)*



**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 93857

**CONDITIONS**

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 93857
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	4/18/2022