

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Resources Department  
  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

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

Incident ID	nRM2035059346
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party EOG Y Resources, Inc.	OGRID 7377
Contact Name Robert Asher	Contact Telephone 575-748-4171
Contact email bob_asher@eogresources.com	Incident # (assigned by OCD) nRM2035059346
Contact mailing address 104 S. 4 <sup>th</sup>	

### Location of Release Source

Latitude 32.84989 Longitude -103.92232  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Jackson B #55	Site Type Facility
Date Release Discovered 11/1/2020	API# 30-015-40844

Unit Letter	Section	Township	Range	County
G	12	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) 2	Volume Recovered (bbls) 1.5
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 3	Volume Recovered (bbls) 1.5
	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

Lease Operator found fluid polished rod liner moved up the polished rod causing the stuffing box to leak, at the wellhead running east on location then turning south.

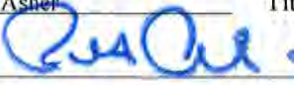
State of New Mexico  
Oil Conservation Division

Incident ID	nRM2035059346
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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>Robert Asher</u>	Title: <u>Environmental Supervisor</u>
Signature: <u></u>	Date: <u>12/4/2020</u>
email: <u>bob_asher@cogresources.com</u>	Telephone: <u>575-748-4171</u>
<b>OCD Only</b>	
Received by: _____	Date: _____

Incident ID	nRM2035059346
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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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

State of New Mexico  
Oil Conservation Division

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

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr  
Signature: Chase Settle Date: 03/29/2022  
email: Chase\_Settle@eogresources.com Telephone: 575-748-1471

**OCD Only**

Received by: \_\_\_\_\_ 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: 11223609

March 24, 2022

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

Re: **Site Characterization and Closure Report  
Jackson B #55 Release Site  
EOG Resources, Inc.  
Incident ID: nRM2035059346  
API # 30-015-40844  
G-12-17S-30E, Eddy County, New Mexico**

To Whom It May Concern:

## 1. Introduction

GHD Services Inc. (GHD), on behalf of EOG Resources-Artesia Division (EOG), submits this Site Characterization and Closure Report to the New Mexico Oil Conservation Division (NMOCD) District 2 Office for approval. This Report provides documentation of delineation, sampling, analyses, and remedial activities in the affected areas at the EOG Jackson B #55 Release Site (Site). The Site is located in Unit Letter G, Section 12 of Township 17 South and Range 30 East in Eddy County, New Mexico (Figure 1). The GPS coordinates for the well from where the release emanated are 32.84989° N latitude and 103.92232° W longitude. The surface owner of the land where the release occurred is the US Bureau of Land Management (BLM). The Site details are depicted on Figure 2, Site Assessment: Soil Analytical Results Map and Figure 3, Confirmation Sampling: Soil Analytical Results Map.

## 2. Background Information

A C-141 initial report for this release was submitted to the NMOCD on December 4, 2020. The C-141 stated that approximately 3 barrels of produced water and 2 barrels of crude oil was released and discovered on November 1, 2020. Approximately one and one half (1.5) barrels of produced water and one and one half (1.5) barrels of crude oil was recovered.

The Release Notification, Site Assessment/Characterization and Closure portions of Form C-141 for Incident Number nRM2035059346 are attached to the front of this report.

### 3. Groundwater and Site Characterization

GHD characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12). 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 at GPS Coordinates, 32.85697° N latitude and 103.92703° W longitude to approximately one hundred twenty-five (125) feet below ground surface which is located within half a mile north-northeast of the Site. The well was left open for 72 hours and a water level meter was utilized to determine the presence or absence of groundwater. Groundwater was not detected in the well, the temporary well was subsequently plugged and abandoned. Depth to groundwater for this Site is greater than one hundred (100) feet. No other receptors (water wells, playas, wetlands, waterways, lakebeds or ordinance boundaries) were located within each specific boundaries or distance from the Site. According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i), the Site is located within an area of low karst potential with depth to groundwater greater than one hundred (100) feet and meets the closure criteria for depth to groundwater greater than one hundred (100) feet in Table I NMAC 19.15.29.12. The Site characterization documentation (Talon/LPE's Temporary Well Log, Karst Potential, Significant Water Course, Wetlands, and FEMA 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)
Low Karst Potential Area	>100 ft

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

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

### 4. Initial Assessment and Sampling

On July 21, 2021, GHD Services Inc. (GHD) and EOG's contractor Culberon Construction Energy Services, LLC (CCI), on behalf of EOG, installed eighteen (18) test pits, TP-1 through TP-18, within the suspected impacted area. Soil samples were collected at depths from surface to two (2) feet below ground surface. All soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, total petroleum hydrocarbons (TPH) by Method 8015B Modified, and chloride by EPA Method 300 by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico.

None of the eighteen (18) test pits had samples exceeding NMAC Table I Closure Criteria for groundwater greater than one hundred (100) feet. However, five (5) test pits exhibited chloride concentrations above NMAC 19.15.29.13 for restoration. Figure 2, Initial Assessment: Soil Analytical Results Map, depicts the locations of

the initial delineation samples and analytical concentrations. Analytical results are provided in Table 1, on Figure 2, and in the Laboratory Analytical Reports provided in Attachment C.

## 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 October 28, 2021, to excavate the affected soils. There were two (2) areas requiring excavation. The northern area measured approximately eleven (11) feet long by ten (10) feet wide and was excavated to a depth of approximately six (6) inches below grade. The southern area measured approximately one hundred thirty-one (131) feet long with widths ranging from three (3) ft to forty-two (42) feet and was excavated to depths ranging from approximately two (2) to four (4) feet below grade. As shown on Figure 3, eight (8) sidewall and twenty-seven (27) bottom hole composite confirmation samples were collected. In the northern excavation NBH-1 was collected at a depth of approximately six (6) inches below grade. In the southern excavation BH-1 through BH-26 were collected at varying depths ranging from approximately two (2) to four (4) feet below grade. The thirty-five (35) confirmation samples were taken to HEAL in Albuquerque, New Mexico. All samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. All confirmation samples collected represented areas no greater than 200 square (sq) ft. Laboratory Analytical Reports and Chain-of-Custody Documentation are provided in Attachment C. Analytical results are summarized in attached Table 1, Summary of Soil Analytical Data.

Analytical results indicated one (1) of the thirty-five (35) confirmations samples showed a chloride exceedance above NMAC 19.15.29.13 for restoration closure criteria (BH-11 collected from 3.5-4 ft below grade). None of the other confirmation samples exhibited BTEX, TPH, or chloride concentrations above selected NMAC 19.15.29.13 for restoration closure criteria. Figure 3, Confirmation Sampling: Analytical Results Map, depicts the locations of the confirmation samples and analytical concentrations. Analytical results are provided in Table 1, on Figure 3, and in the Laboratory Analytical Reports provided in Attachment C.

Due to the exceedance of sample BH-11, GHD and SS returned to the site on November 16, 2021, to further excavate the area. The area around BH-11 was excavated to a depth of approximately four (4) feet below grade, and a sample was collected (BH-11A). Analytical results indicated BH-11A had no concentrations exceeding NMAC 19.15.29.13 for restoration closure criteria.

An approximate total of 500.41 tons of impacted soils were removed from the remedial excavation. A photographic log of the excavation activities is included in Attachment B. 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. The approved C-138 and waste manifests from November 2 through November 5, 2021, shipping dates are provided in Attachment D. Confirmation sampling notifications are provided as Attachment E.

## 6. nRM2035059346 Closure Requests

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 nRM2035059346.

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



Becky Haskell  
Senior Project Manager



Tom Larson  
Project Director

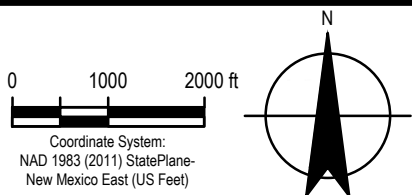
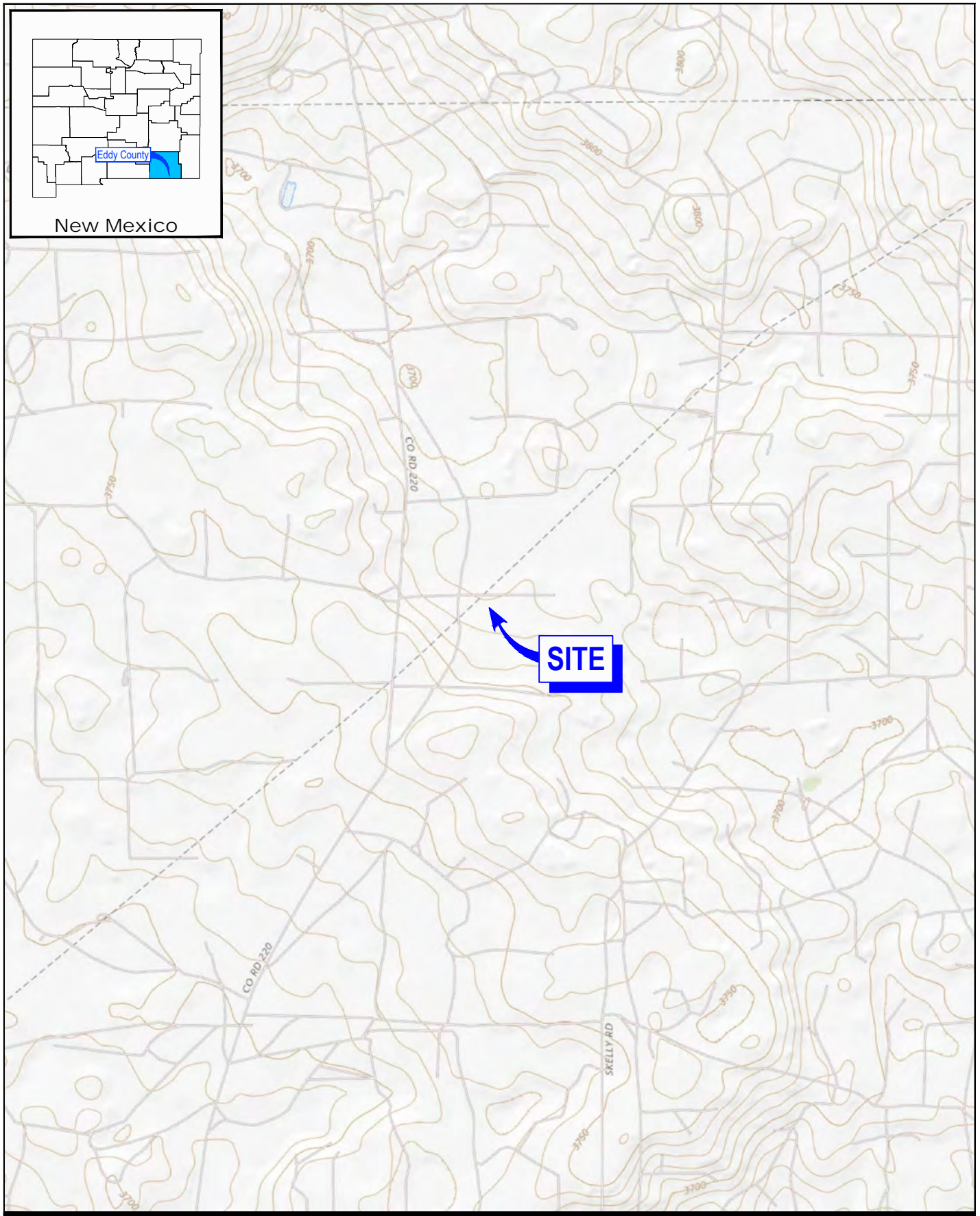
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Encl.    Figure 1 – Site Location Map  
          Figure 2 – Initial Assessment: Soil Analytical Results Map  
          Figure 3 – Confirmation Sampling Soil Analytical Results Map  
          Table 1 – Summary of Soil Analytical Data  
          Attachment A – Site Characterization Documentation  
          Attachment B – Photographic Log  
          Attachment C – Laboratory Analytical Reports and Chain-of-Custody Documentation  
          Attachment D – Approved Form C-138 and Manifests  
          Attachment E – Confirmation Sampling Notifications

cc:       Chase Settle



## Figures



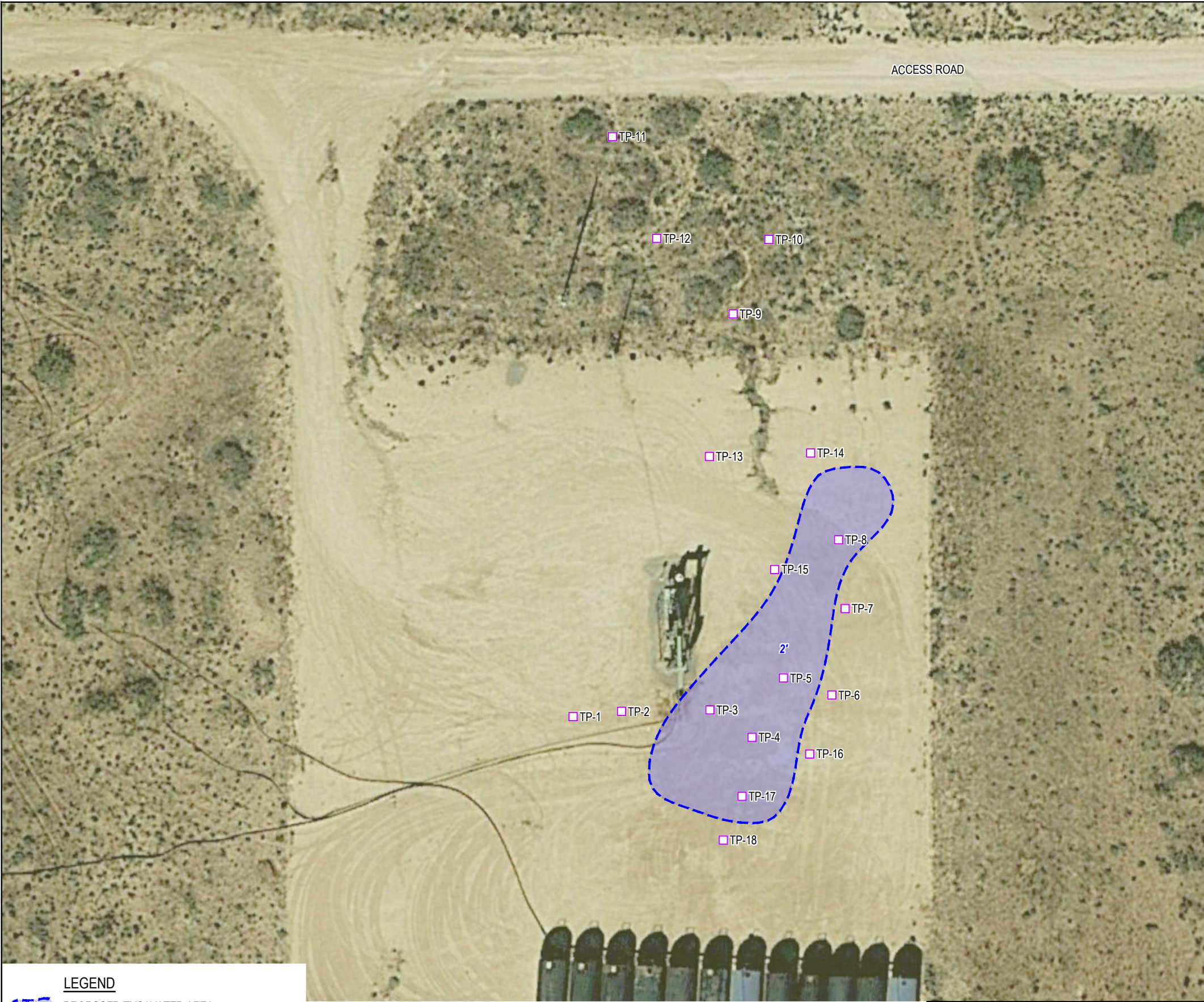
EOG RESOURCES  
EDDY COUNTY, NEW MEXICO  
JACKSON B 55

Project No. 11223609  
Date March 2022

SITE LOCATION MAP

FIGURE 1





PROPOSED EXCAVATED AREA  
 TEST PIT LOCATION  
DEPTH DEPTH OF SAMPLE (FT)  
BTEX BENZENE, TOLUENE, ETHYLBENZENE & XYLENES CONCENTRATION (MG/KG)  
TPH TOTAL PETROLEUM HYDROCARBONS CONCENTRATION (MG/KG)

**LEGEND**

**NOTES:**

- RESULTS IN MILLIGRAMS PER KILOGRAM (MG/KG).
- SEE TABLE 1 FOR FULL ANALYTICAL RESULTS/DETAILS.
- YELLOW SHADED CELLS INDICATE EXCEEDANCE.

Sample ID	Sample Date	Depth (ft bgs)	Benzene	BTEX	TPH	Chloride			
			(mg/kg)	(mg/kg)	Total GRO/DRO/MRO		(mg/kg)		
					Table I Closure Criteria for Soils >100 ft Depth to				
					10	50		2,500	20,000
Initial Assessment Samples									
TP1-S	7/21/21	Surface	<0.024	<0.096	<47	<60			
TP1-2	7/21/21	2	<0.023	<0.092	<48	100			
TP2-S	7/21/21	Surface	<0.024	<0.095	<46	<60			
TP2-2	7/21/21	2	<0.024	<0.096	<50	170			
TP3-S	7/21/21	Surface	<0.025	<0.10`	<48	<60			
TP3-4	7/21/21	4	<0.023	<0.094	<46	2,100			
TP4-S	7/21/21	Surface	<0.024	<0.095	<50	89			
TP4-2	7/21/21	2	<0.024	<0.095	<49	670			
TP5-S	7/21/21	Surface	<0.024	<0.095	<44	130			
TP5-2	7/21/21	2	<0.023	<0.093	<46	760			
TP6-S	7/21/21	Surface	<0.024	<0.095	<46	<60			
TP6-2	7/21/21	2	<0.024	<0.097	<47	<60			
TP7-S	7/21/21	Surface	<0.024	<0.094	<47	<60			
TP7-2	7/21/21	2	<0.024	<0.096	<50	<60			
TP8-S	7/21/21	Surface	<0.024	<0.097	<49	<60			
TP8-2	7/21/21	2	<0.025	<0.099	<49	800			
TP9-S	7/21/21	Surface	<0.024	<0.097	<44	<60			
TP9-2	7/21/21	2	<0.025	<0.099	<48	<59			
TP10-S	7/21/21	Surface	<0.024	<0.097	<48	<60			
TP10-2	7/21/21	2	<0.025	<0.098	<49	<60			
TP11-S	7/21/21	Surface	<0.025	<0.099	106	<60			
TP11-2	7/21/21	2	<0.024	<0.097	<46	<60			
TP12-S	7/21/21	Surface	<0.024	<0.096	<47	<60			
TP12-2	7/21/21	2	<0.025	<0.099	<48	<60			
TP13-S	7/21/21	Surface	<0.025	<0.10	<48	77			
TP13-2	7/21/21	2	<0.024	<0.095	<46	<60			
TP14-S	7/21/21	Surface	<0.025	<0.099	<49	<61			
TP14-2	7/21/21	2	<0.024	<0.095	<48	62			
TP15-S	7/21/21	Surface	<0.024	<0.096	<49	<60			
TP15-2	7/21/21	2	<0.024	<0.095	<49	60			
TP16-S	7/21/21	Surface	<0.024	<0.097	<50	83			
TP16-2	7/21/21	2	<0.024	<0.097	<50	66			
TP17-S	7/21/21	Surface	<0.023	<0.093	<47	1,300			
TP17-2	7/21/21	2	<0.024	<0.097	<48	330			
TP18-S	7/21/21	Surface	<0.025	<0.099	<48	<60			
TP18-2	7/21/21	2	<0.024	<0.097	<50	150			

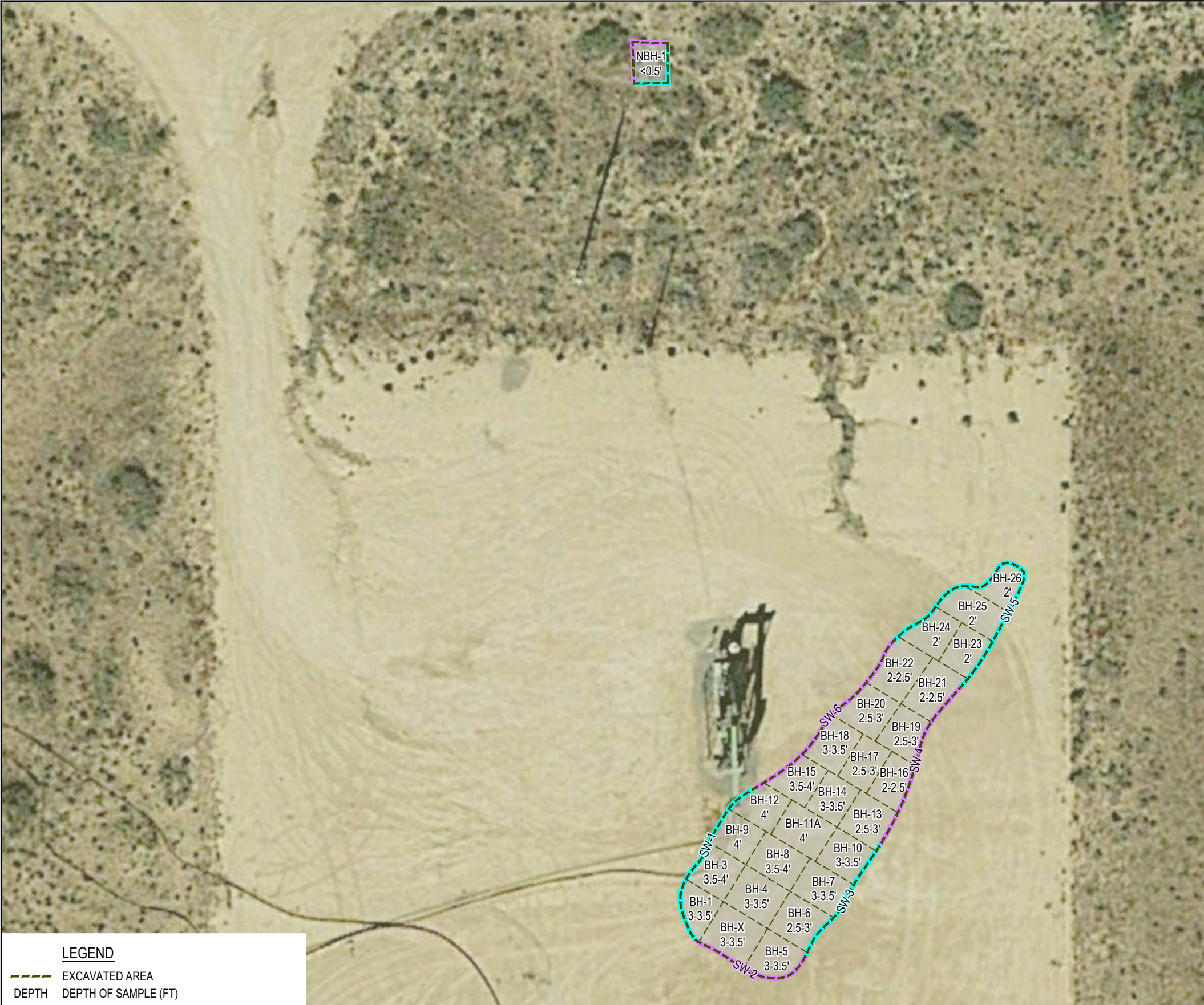
EOG RESOURCES  
EDDY COUNTY, NEW MEXICO  
JACKSON B 55

Project No. 11223609  
Date March 2022

SITE ASSESSMENT:  
SOIL ANALYTICAL RESULTS MAP

FIGURE 2





Sample ID	Sample Date	Depth (ft bgs)	Benzene	BTEX	TPH	Chloride	
			(mg/kg)	(mg/kg)	Total		(mg/kg)
					GRO/DRO/MRO		
					(mg/kg)		
Table I Closure Criteria for Soils >100 ft Depth to							
10	50	2,500	20,000				
Confirmation Samples - Bottom Hole							
NBH-1	11/2/21	<0.5	<0.025	<0.10	<48	73	
BH-1	11/1/21	3-3.5	<0.024	<0.094	<49	410	
BH-2	11/1/21	3-3.5	<0.025	<0.099	<48	280	
BH-3	11/1/21	3.5-4	<0.025	<0.099	<49	470	
BH-4	11/1/21	3-3.5	<0.024	<0.097	<49	74	
BH-5	11/1/21	3-3.5	<0.025	<0.10	<48	80	
BH-6	11/1/21	2.5-3	<0.024	<0.098	<48	<60	
BH-7	11/1/21	3-3.5	<0.023	<0.094	<49	99	
BH-8	11/1/21	3.5-4	<0.024	<0.097	<47	220	
BH-9	11/1/21	4	<0.024	<0.096	<47	2,500	
BH-10	11/1/21	3-3.5	<0.023	<0.093	<49	120	
BH-11	11/1/21	3.5-4	<0.025	<0.099	<50	970	
BH-11A	11/16/21	4	<0.024	<0.095	<48	510	
BH-12	11/1/21	4	<0.023	<0.094	<47	640	
BH-13	11/1/21	2.5-3	<0.023	<0.093	<49	110	
BH-14	11/1/21	3-3.5	<0.024	<0.096	<50	97	
BH-15	11/1/21	3.5-4	<0.025	<0.099	<50	<60	
BH-16	11/1/21	2-2.5	<0.025	<0.10	<46	150	
BH-17	11/1/21	2.5-3	<0.024	<0.095	<47	100	
BH-18	11/1/21	3-3.5	<0.024	<0.096	<49	63	
BH-19	11/1/21	2.5-3	<0.025	<0.099	<50	<60	
BH-20	11/1/21	2.5-3	<0.024	<0.097	<49	70	
BH-21	11/1/21	2-2.5	<0.025	<0.098	<50	<60	
BH-22	11/1/21	2-2.5	<0.024	<0.095	<45	<60	
BH-23	11/1/21	2	<0.023	<0.093	<43	120	
BH-24	11/1/21	2	<0.024	<0.098	<47	<60	
BH-25	11/1/21	2	<0.024	<0.096	<48	<60	
BH-26	11/1/21	2	<0.023	<0.094	<47	<60	
Confirmation Samples - Sidewall							
NSW-1	11/2/21	-	<0.024	<0.096	<48	<60	
NSW-2	11/2/21	-	<0.025	<0.10	<47	<60	
SW-1	11/1/21	-	<0.023	<0.092	<48	320	
SW-2	11/1/21	-	<0.024	<0.097	13	350	
SW-3	11/1/21	-	<0.024	<0.095	<48	87	
SW-4	11/1/21	-	<0.025	<0.099	<48	180	
SW-5	11/1/21	-	<0.023	<0.092	<46	<60	
SW-6	11/1/21	-	<0.024	<0.096	<48	61	

LEGEND

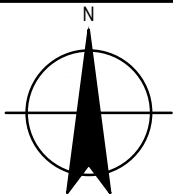
- EXCAVATED AREA
- DEPTH DEPTH OF SAMPLE (FT)
- BTEX BENZENE, TOLUENE, ETHYLBENZENE & XYLENES CONCENTRATION (MG/KG)
- TPH TOTAL PETROLEUM HYDROCARBONS CONCENTRATION (MG/KG)
- INDICATES SIDE WALL COMPOSITE SAMPLE
- INDICATES SIDE WALL COMPOSITE SAMPLE
- INDICATES SIDE WALL COMPOSITE SAMPLE

NOTES:

- RESULTS IN MILLIGRAMS PER KILOGRAM (MG/KG).
- SEE TABLE 1 FOR FULL ANALYTICAL RESULTS/DETAILS.
- YELLOW SHADED CELLS INDICATE EXCEEDANCE.



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



EOG RESOURCES  
EDDY COUNTY, NEW MEXICO  
JACKSON B 55

CONFIRMATION SAMPLING:  
SOIL ANALYTICAL RESULTS MAP

Project No. 11223609  
Date March 2022

FIGURE 3



## Tables



**Table 1**  
**Summary of Soil Analytical Data**  
**Jackson B 55**  
**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 ft Depth to Groundwater 19.15.29 NMAC									
			10	---	---	---	50	1,000	---	2,500	20,000	
<b>Initial Assessment Samples</b>												
TP1-S	7/21/21	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.3	<47	<47	<60
TP1-2	7/21/21	2	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.7	<48	<48	<b>100</b>
TP2-S	7/21/21	Surface	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.1	<46	<46	<60
TP2-2	7/21/21	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<10	<50	<50	<b>170</b>
TP3-S	7/21/21	Surface	<0.025	<0.050	<0.050	<0.10	<0.10`	<5.0	<9.5	<48	<48	<60
TP3-4	7/21/21	4	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.2	<46	<46	<b>2,100</b>
TP4-S	7/21/21	Surface	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<10	<50	<50	<b>89</b>
TP4-2	7/21/21	2	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.8	<49	<49	<b>670</b>
TP5-S	7/21/21	Surface	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<8.9	<44	<44	<b>130</b>
TP5-2	7/21/21	2	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.2	<46	<46	<b>760</b>
TP6-S	7/21/21	Surface	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.1	<46	<46	<60
TP6-2	7/21/21	2	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.5	<47	<47	<60
TP7-S	7/21/21	Surface	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.5	<47	<47	<60
TP7-2	7/21/21	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<10	<50	<50	<60
TP8-S	7/21/21	Surface	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.8	<49	<49	<60
TP8-2	7/21/21	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.8	<49	<49	<b>800</b>
TP9-S	7/21/21	Surface	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<8.9	<44	<44	<60
TP9-2	7/21/21	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<48	<48	<59
TP10-S	7/21/21	Surface	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.6	<48	<48	<60
TP10-2	7/21/21	2	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<49	<49	<60
TP11-S	7/21/21	Surface	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<b>48</b>	<b>58</b>	<b>106</b>	<60
TP11-2	7/21/21	2	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.2	<46	<46	<60
TP12-S	7/21/21	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.3	<47	<47	<60
TP12-2	7/21/21	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.7	<48	<48	<60
TP13-S	7/21/21	Surface	<0.025	<0.0580	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<48	<b>77</b>
TP13-2	7/21/21	2	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.3	<46	<46	<60

**Table 1**  
**Summary of Soil Analytical Data**  
**Jackson B 55**  
**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 ft Depth to Groundwater 19.15.29 NMAC									
			10	---	---	---	50	1,000	---	2,500	20,000	
TP14-S	7/21/21	Surface	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.8	<49	<49	<61
TP14-2	7/21/21	2	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.7	<48	<48	62
TP15-S	7/21/21	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.8	<49	<49	<60
TP15-2	7/21/21	2	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.8	<49	<49	60
TP16-S	7/21/21	Surface	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<10	<50	<50	83
TP16-2	7/21/21	2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<10	<50	<50	66
TP17-S	7/21/21	Surface	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.3	<47	<47	1,300
TP17-2	7/21/21	2	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.6	<48	<48	330
TP18-S	7/21/21	Surface	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.7	<48	<48	<60
TP18-2	7/21/21	2	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.9	<50	<50	150
<b>Confirmation Samples - Bottom Hole</b>												
NBH-1	11/2/21	<0.5	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<48	73
BH-1	11/1/21	3-3.5	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<9.7	<49	<49	410
BH-2	11/1/21	3-3.5	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<48	<48	280
BH-3	11/1/21	3.5-4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<49	<49	470
BH-4	11/1/21	3-3.5	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.8	<49	<49	74
BH-5	11/1/21	3-3.5	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.5	<48	<48	80
BH-6	11/1/21	2.5-3	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<48	<48	<60
BH-7	11/1/21	3-3.5	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.8	<49	<49	99
BH-8	11/1/21	3.5-4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.5	<47	<47	220
BH-9	11/1/21	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.4	<47	<47	2,500
BH-10	11/1/21	3-3.5	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.8	<49	<49	120
BH-11	11/1/21	3.5-4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<50	<50	978
BH-11A	11/16/21	4	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.5	<48	<48	510
BH-12	11/1/21	4	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.4	<47	<47	640
BH-13	11/1/21	2.5-3	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<9.9	<49	<49	110
BH-14	11/1/21	3-3.5	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.9	<50	<50	97
BH-15	11/1/21	3.5-4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<50	<50	<60
BH-16	11/1/21	2-2.5	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.2	<46	<46	150
BH-17	11/1/21	2.5-3	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.4	<47	<47	100
BH-18	11/1/21	3-3.5	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.8	<49	<49	63

**Table 1**  
**Summary of Soil Analytical Data**  
**Jackson B 55**  
**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 I Closure Criteria for Soils >100 ft Depth to Groundwater 19.15.29 NMAC									
			10	---	---	---	50	1,000	---	2,500	20,000	
BH-19	11/1/21	2.5-3	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.9	<50	<50	<60
BH-20	11/1/21	2.5-3	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.8	<49	<49	<b>70</b>
BH-21	11/1/21	2-2.5	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.9	<50	<50	<60
BH-22	11/1/21	2-2.5	<0.024	<0.048	<0.048	<0.095	<0.095	<4.8	<9.0	<45	<45	<60
BH-23	11/1/21	2	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<8.5	<43	<43	<b>120</b>
BH-24	11/1/21	2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<47	<47	<60
BH-25	11/1/21	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<48	<48	<60
BH-26	11/1/21	2	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<9.4	<47	<47	<60
<b>Confirmation Samples - Sidewall</b>												
NSW-1	11/2/21	-	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<48	<48	<60
NSW-2	11/2/21	-	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.4	<47	<47	<60
SW-1	11/1/21	-	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.6	<48	<48	<b>320</b>
SW-2	11/1/21	-	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<b>13</b>	<48	<b>13</b>	<b>350</b>
SW-3	11/1/21	-	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.6	<48	<48	<b>87</b>
SW-4	11/1/21	-	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48	<b>180</b>
SW-5	11/1/21	-	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.2	<46	<46	<60
SW-6	11/1/21	-	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.6	<48	<48	<b>61</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

 Sample Point Excavated

# Attachment A

## Site Characterization Documentation



# 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)	<u>None</u> Slight Mod. Strong	
	<input type="checkbox"/>	30-40'				Red/brown fine Sand (SP) with varying amounts of silt and caliche	<u>None</u> Slight Mod. Strong	
	<input type="checkbox"/>	40-80'				Dry, dark red/brown sandy Silts (SM)	<u>None</u> Slight Mod. Strong	
	<input type="checkbox"/>	80-125'				Red/brown fine Sand (SP)	<u>None</u> 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	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	

**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 Solinst 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.



# 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



Jackson B #55

- Half Mile Radius
- Jackson B #55
- Jackson B #59







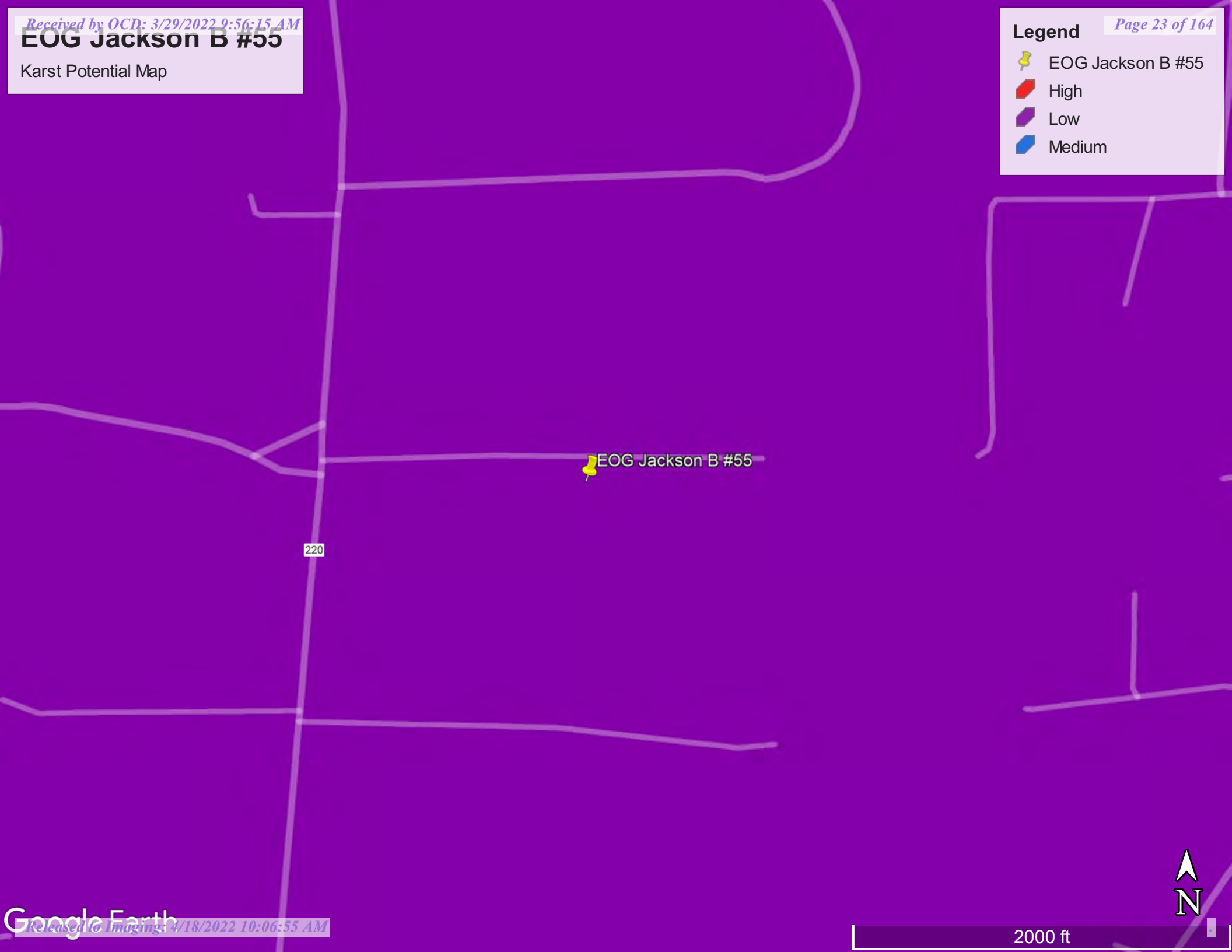


# EOG Jackson B #55

Karst Potential Map

## Legend

-  EOG Jackson B #55
-  High
-  Low
-  Medium



220

EOG Jackson B #55





2000 ft


# Jackson B #55

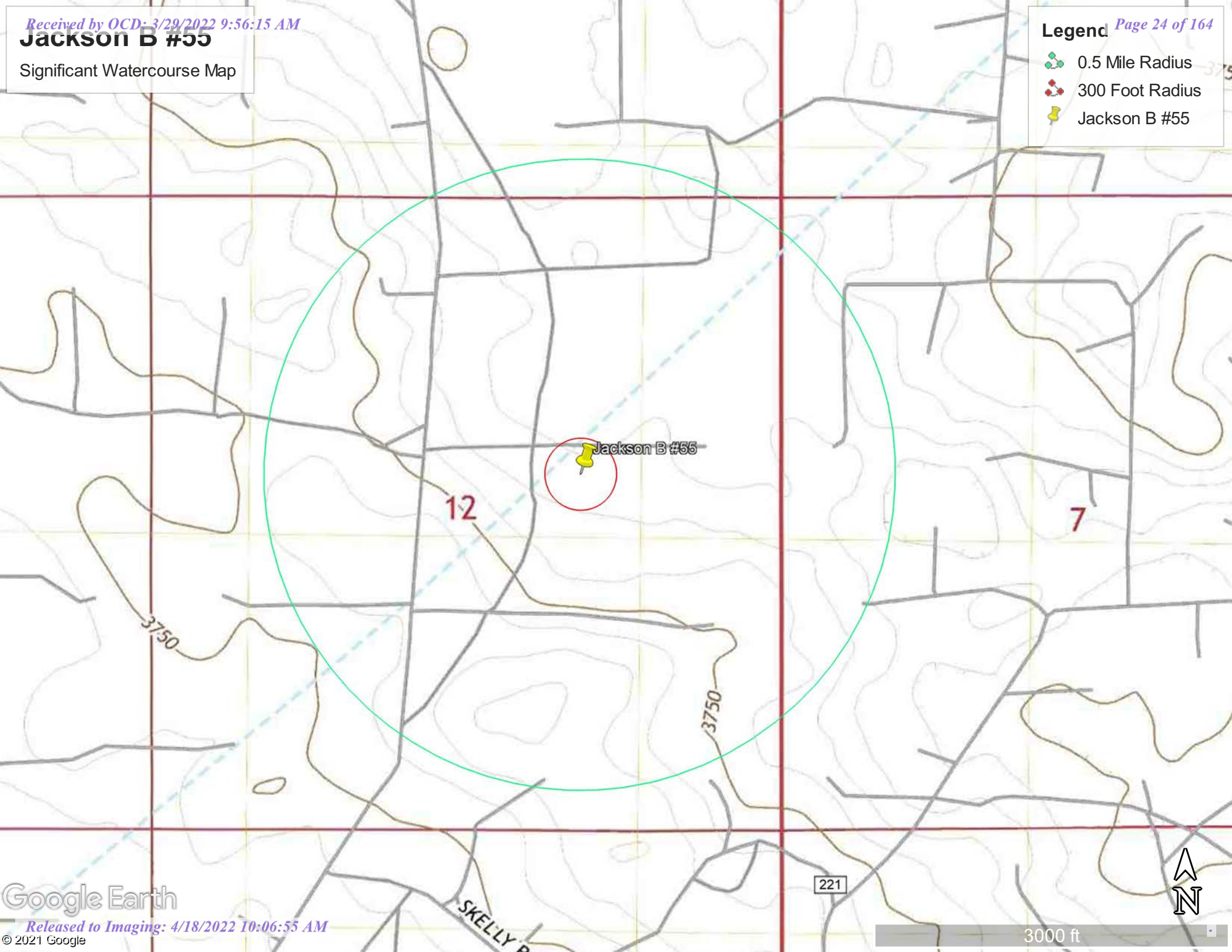
Significant Watercourse Map

Legend Page 24 of 164

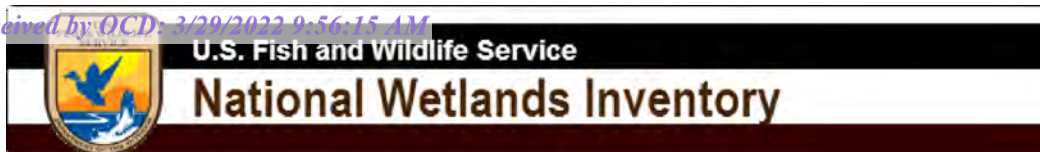
 0.5 Mile Radius

 300 Foot Radius

 Jackson B #55







## EOG Jackson B #55



February 1, 2021

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

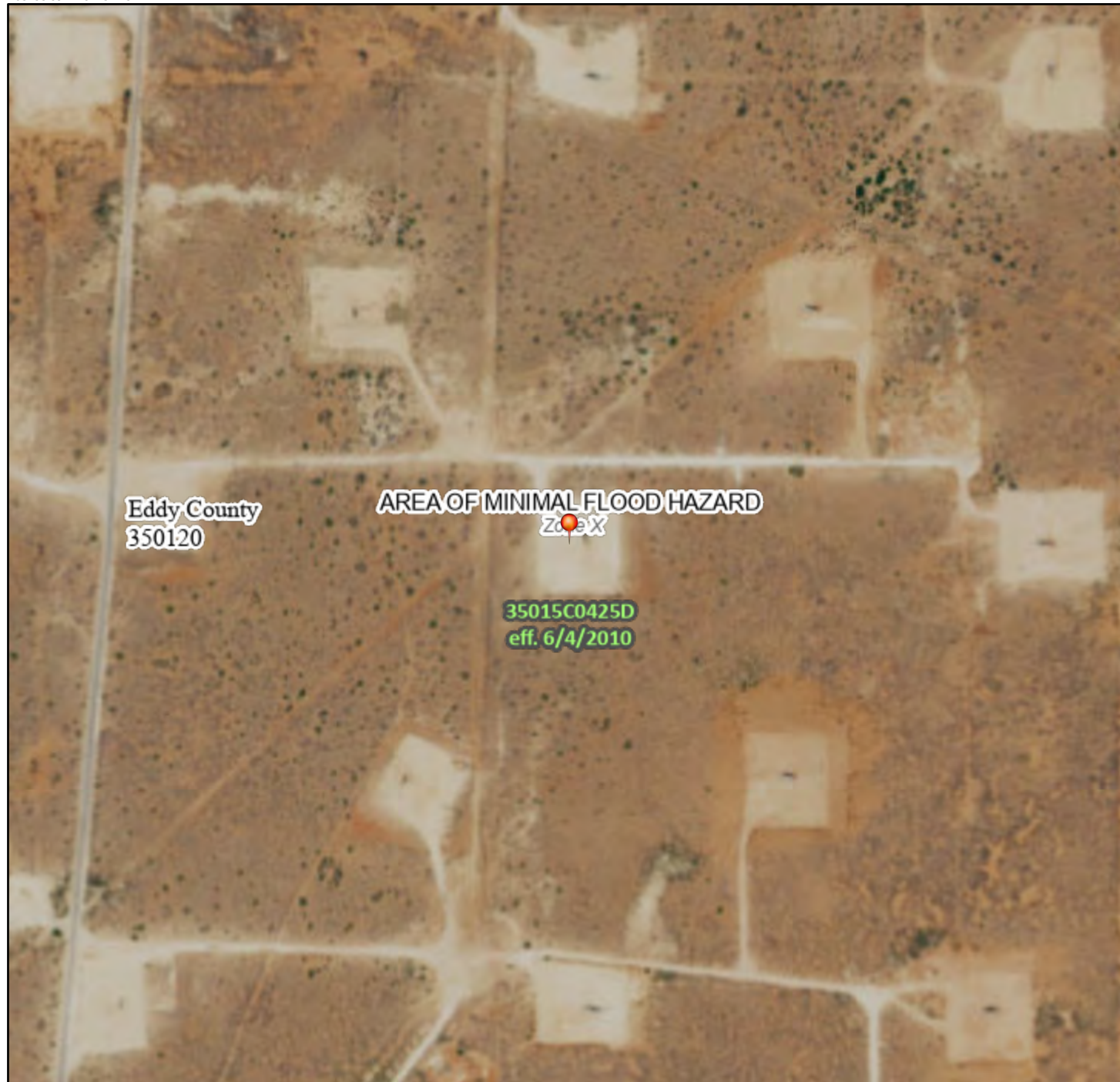
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



## National Flood Hazard Layer FIRMette



103°55'39"W 32°51'15"N



## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
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 **2/2/2021 at 3:48 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.

0 250 500 1,000 1,500 2,000 Feet 1:6,000

103°55'2"W 32°50'44"N

## Attachment B Photographic Log





Photo 1: View of southern excavation facing southwest



Photo 2: View of southern excavation facing south





Photo 3: View of southern excavation facing northeast



Photo 4: View of southern excavation facing north

# Attachment C 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)

July 30, 2021

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

RE: Jackson B 55

OrderNo.: 2107A94

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 36 sample(s) on 7/22/2021 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued July 29, 2021.

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. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP1-S

Project: Jackson B 55

Collection Date: 7/21/2021 7:50:00 AM

Lab ID: 2107A94-001

Matrix: SOIL

Received Date: 7/22/2021 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	ND	60		mg/Kg	20	7/27/2021 3:18:36 PM	61578
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/24/2021 11:17:36 PM	61519
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/24/2021 11:17:36 PM	61519
Surr: DNOP	108	70-130		%Rec	1	7/24/2021 11:17:36 PM	61519
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/24/2021 1:39:29 AM	61501
Surr: BFB	91.6	70-130		%Rec	1	7/24/2021 1:39:29 AM	61501
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/24/2021 1:39:29 AM	61501
Toluene	ND	0.048		mg/Kg	1	7/24/2021 1:39:29 AM	61501
Ethylbenzene	ND	0.048		mg/Kg	1	7/24/2021 1:39:29 AM	61501
Xylenes, Total	ND	0.096		mg/Kg	1	7/24/2021 1:39:29 AM	61501
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	7/24/2021 1:39:29 AM	61501

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP1-2

Project: Jackson B 55

Collection Date: 7/21/2021 8:00:00 AM

Lab ID: 2107A94-002

Matrix: SOIL

Received Date: 7/22/2021 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	100	60		mg/Kg	20	7/27/2021 4:20:40 PM	61585
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/24/2021 11:41:20 PM	61519
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/24/2021 11:41:20 PM	61519
Surr: DNOP	141	70-130	S	%Rec	1	7/24/2021 11:41:20 PM	61519
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/24/2021 2:02:59 AM	61501
Surr: BFB	90.5	70-130		%Rec	1	7/24/2021 2:02:59 AM	61501
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	7/24/2021 2:02:59 AM	61501
Toluene	ND	0.046		mg/Kg	1	7/24/2021 2:02:59 AM	61501
Ethylbenzene	ND	0.046		mg/Kg	1	7/24/2021 2:02:59 AM	61501
Xylenes, Total	ND	0.092		mg/Kg	1	7/24/2021 2:02:59 AM	61501
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	7/24/2021 2:02:59 AM	61501

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP2-S

Project: Jackson B 55

Collection Date: 7/21/2021 8:10:00 AM

Lab ID: 2107A94-003

Matrix: SOIL

Received Date: 7/22/2021 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	ND	60		mg/Kg	20	7/27/2021 4:57:54 PM	61585
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	7/25/2021 12:05:05 AM	61519
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/25/2021 12:05:05 AM	61519
Surr: DNOP	118	70-130		%Rec	1	7/25/2021 12:05:05 AM	61519
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/24/2021 2:26:41 AM	61501
Surr: BFB	90.3	70-130		%Rec	1	7/24/2021 2:26:41 AM	61501
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/24/2021 2:26:41 AM	61501
Toluene	ND	0.048		mg/Kg	1	7/24/2021 2:26:41 AM	61501
Ethylbenzene	ND	0.048		mg/Kg	1	7/24/2021 2:26:41 AM	61501
Xylenes, Total	ND	0.095		mg/Kg	1	7/24/2021 2:26:41 AM	61501
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	7/24/2021 2:26:41 AM	61501

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP2-2

Project: Jackson B 55

Collection Date: 7/21/2021 8:15:00 AM

Lab ID: 2107A94-004

Matrix: SOIL

Received Date: 7/22/2021 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	7/27/2021 5:35:08 PM	61585
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/25/2021 12:52:39 AM	61519
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/25/2021 12:52:39 AM	61519
Surr: DNOP	116	70-130		%Rec	1	7/25/2021 12:52:39 AM	61519
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/24/2021 2:50:21 AM	61501
Surr: BFB	92.1	70-130		%Rec	1	7/24/2021 2:50:21 AM	61501
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/24/2021 2:50:21 AM	61501
Toluene	ND	0.048		mg/Kg	1	7/24/2021 2:50:21 AM	61501
Ethylbenzene	ND	0.048		mg/Kg	1	7/24/2021 2:50:21 AM	61501
Xylenes, Total	ND	0.096		mg/Kg	1	7/24/2021 2:50:21 AM	61501
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	7/24/2021 2:50:21 AM	61501

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP3-S

Project: Jackson B 55

Collection Date: 7/21/2021 8:20:00 AM

Lab ID: 2107A94-005

Matrix: SOIL

Received Date: 7/22/2021 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	ND	60		mg/Kg	20	7/27/2021 5:47:34 PM	61585
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/25/2021 1:16:22 AM	61519
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/25/2021 1:16:22 AM	61519
Surr: DNOP	117	70-130		%Rec	1	7/25/2021 1:16:22 AM	61519
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/24/2021 4:24:21 AM	61501
Surr: BFB	90.9	70-130		%Rec	1	7/24/2021 4:24:21 AM	61501
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	7/24/2021 4:24:21 AM	61501
Toluene	ND	0.050		mg/Kg	1	7/24/2021 4:24:21 AM	61501
Ethylbenzene	ND	0.050		mg/Kg	1	7/24/2021 4:24:21 AM	61501
Xylenes, Total	ND	0.10		mg/Kg	1	7/24/2021 4:24:21 AM	61501
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	7/24/2021 4:24:21 AM	61501

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP3-4

Project: Jackson B 55

Collection Date: 7/21/2021 8:30:00 AM

Lab ID: 2107A94-006

Matrix: SOIL

Received Date: 7/22/2021 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	7/27/2021 5:59:58 PM	61585
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/25/2021 1:40:06 AM	61519
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/25/2021 1:40:06 AM	61519
Surr: DNOP	121	70-130		%Rec	1	7/25/2021 1:40:06 AM	61519
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/24/2021 4:48:02 AM	61501
Surr: BFB	91.6	70-130		%Rec	1	7/24/2021 4:48:02 AM	61501
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	7/24/2021 4:48:02 AM	61501
Toluene	ND	0.047		mg/Kg	1	7/24/2021 4:48:02 AM	61501
Ethylbenzene	ND	0.047		mg/Kg	1	7/24/2021 4:48:02 AM	61501
Xylenes, Total	ND	0.094		mg/Kg	1	7/24/2021 4:48:02 AM	61501
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	7/24/2021 4:48:02 AM	61501

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP4-S

Project: Jackson B 55

Collection Date: 7/21/2021 8:35:00 AM

Lab ID: 2107A94-007

Matrix: SOIL

Received Date: 7/22/2021 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	89	59		mg/Kg	20	7/27/2021 6:12:23 PM	61585
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/25/2021 2:03:46 AM	61519
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/25/2021 2:03:46 AM	61519
Surr: DNOP	119	70-130		%Rec	1	7/25/2021 2:03:46 AM	61519
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/24/2021 5:11:40 AM	61501
Surr: BFB	89.8	70-130		%Rec	1	7/24/2021 5:11:40 AM	61501
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/24/2021 5:11:40 AM	61501
Toluene	ND	0.047		mg/Kg	1	7/24/2021 5:11:40 AM	61501
Ethylbenzene	ND	0.047		mg/Kg	1	7/24/2021 5:11:40 AM	61501
Xylenes, Total	ND	0.095		mg/Kg	1	7/24/2021 5:11:40 AM	61501
Surr: 4-Bromofluorobenzene	92.1	70-130		%Rec	1	7/24/2021 5:11:40 AM	61501

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP4-2

Project: Jackson B 55

Collection Date: 7/21/2021 8:40:00 AM

Lab ID: 2107A94-008

Matrix: SOIL

Received Date: 7/22/2021 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	670	60		mg/Kg	20	7/27/2021 6:49:38 PM	61585
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/25/2021 2:27:26 AM	61519
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/25/2021 2:27:26 AM	61519
Surr: DNOP	121	70-130		%Rec	1	7/25/2021 2:27:26 AM	61519
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/24/2021 5:35:13 AM	61501
Surr: BFB	92.7	70-130		%Rec	1	7/24/2021 5:35:13 AM	61501
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/24/2021 5:35:13 AM	61501
Toluene	ND	0.048		mg/Kg	1	7/24/2021 5:35:13 AM	61501
Ethylbenzene	ND	0.048		mg/Kg	1	7/24/2021 5:35:13 AM	61501
Xylenes, Total	ND	0.095		mg/Kg	1	7/24/2021 5:35:13 AM	61501
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	7/24/2021 5:35:13 AM	61501

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP5-S

Project: Jackson B 55

Collection Date: 7/21/2021 8:50:00 AM

Lab ID: 2107A94-009

Matrix: SOIL

Received Date: 7/22/2021 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	130	60		mg/Kg	20	7/27/2021 7:02:03 PM	61585
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	7/25/2021 2:51:06 AM	61519
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/25/2021 2:51:06 AM	61519
Surr: DNOP	113	70-130		%Rec	1	7/25/2021 2:51:06 AM	61519
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/24/2021 5:58:39 AM	61501
Surr: BFB	93.3	70-130		%Rec	1	7/24/2021 5:58:39 AM	61501
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/24/2021 5:58:39 AM	61501
Toluene	ND	0.048		mg/Kg	1	7/24/2021 5:58:39 AM	61501
Ethylbenzene	ND	0.048		mg/Kg	1	7/24/2021 5:58:39 AM	61501
Xylenes, Total	ND	0.095		mg/Kg	1	7/24/2021 5:58:39 AM	61501
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	7/24/2021 5:58:39 AM	61501

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP5-2

Project: Jackson B 55

Collection Date: 7/21/2021 8:55:00 AM

Lab ID: 2107A94-010

Matrix: SOIL

Received Date: 7/22/2021 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	760	60		mg/Kg	20	7/27/2021 7:14:28 PM	61585
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/25/2021 3:14:47 AM	61519
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/25/2021 3:14:47 AM	61519
Surr: DNOP	119	70-130		%Rec	1	7/25/2021 3:14:47 AM	61519
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/24/2021 6:22:08 AM	61501
Surr: BFB	91.8	70-130		%Rec	1	7/24/2021 6:22:08 AM	61501
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	7/24/2021 6:22:08 AM	61501
Toluene	ND	0.046		mg/Kg	1	7/24/2021 6:22:08 AM	61501
Ethylbenzene	ND	0.046		mg/Kg	1	7/24/2021 6:22:08 AM	61501
Xylenes, Total	ND	0.093		mg/Kg	1	7/24/2021 6:22:08 AM	61501
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	7/24/2021 6:22:08 AM	61501

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP6-S

Project: Jackson B 55

Collection Date: 7/21/2021 9:10:00 AM

Lab ID: 2107A94-011

Matrix: SOIL

Received Date: 7/22/2021 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	ND	60		mg/Kg	20	7/27/2021 7:26:54 PM	61585
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	7/25/2021 3:38:24 AM	61519
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/25/2021 3:38:24 AM	61519
Surr: DNOP	121	70-130		%Rec	1	7/25/2021 3:38:24 AM	61519
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/24/2021 6:45:46 AM	61501
Surr: BFB	92.0	70-130		%Rec	1	7/24/2021 6:45:46 AM	61501
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/24/2021 6:45:46 AM	61501
Toluene	ND	0.048		mg/Kg	1	7/24/2021 6:45:46 AM	61501
Ethylbenzene	ND	0.048		mg/Kg	1	7/24/2021 6:45:46 AM	61501
Xylenes, Total	ND	0.095		mg/Kg	1	7/24/2021 6:45:46 AM	61501
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	1	7/24/2021 6:45:46 AM	61501

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP6-2

Project: Jackson B 55

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

Lab ID: 2107A94-012

Matrix: SOIL

Received Date: 7/22/2021 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	ND	60		mg/Kg	20	7/27/2021 7:39:18 PM	61585
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/25/2021 4:02:00 AM	61519
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/25/2021 4:02:00 AM	61519
Surr: DNOP	116	70-130		%Rec	1	7/25/2021 4:02:00 AM	61519
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/24/2021 7:09:22 AM	61501
Surr: BFB	90.7	70-130		%Rec	1	7/24/2021 7:09:22 AM	61501
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/24/2021 7:09:22 AM	61501
Toluene	ND	0.048		mg/Kg	1	7/24/2021 7:09:22 AM	61501
Ethylbenzene	ND	0.048		mg/Kg	1	7/24/2021 7:09:22 AM	61501
Xylenes, Total	ND	0.097		mg/Kg	1	7/24/2021 7:09:22 AM	61501
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	7/24/2021 7:09:22 AM	61501

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP7-S

Project: Jackson B 55

Collection Date: 7/21/2021 9:20:00 AM

Lab ID: 2107A94-013

Matrix: SOIL

Received Date: 7/22/2021 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	ND	60		mg/Kg	20	7/27/2021 7:51:42 PM	61585
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/25/2021 4:25:37 AM	61519
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/25/2021 4:25:37 AM	61519
Surr: DNOP	119	70-130		%Rec	1	7/25/2021 4:25:37 AM	61519
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/24/2021 7:32:52 AM	61501
Surr: BFB	92.3	70-130		%Rec	1	7/24/2021 7:32:52 AM	61501
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/24/2021 7:32:52 AM	61501
Toluene	ND	0.047		mg/Kg	1	7/24/2021 7:32:52 AM	61501
Ethylbenzene	ND	0.047		mg/Kg	1	7/24/2021 7:32:52 AM	61501
Xylenes, Total	ND	0.094		mg/Kg	1	7/24/2021 7:32:52 AM	61501
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	7/24/2021 7:32:52 AM	61501

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP7-2

Project: Jackson B 55

Collection Date: 7/21/2021 9:25:00 AM

Lab ID: 2107A94-014

Matrix: SOIL

Received Date: 7/22/2021 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	ND	60		mg/Kg	20	7/27/2021 8:04:08 PM	61585
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/25/2021 4:49:17 AM	61519
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/25/2021 4:49:17 AM	61519
Surr: DNOP	117	70-130		%Rec	1	7/25/2021 4:49:17 AM	61519
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/24/2021 7:56:23 AM	61501
Surr: BFB	92.6	70-130		%Rec	1	7/24/2021 7:56:23 AM	61501
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/24/2021 7:56:23 AM	61501
Toluene	ND	0.048		mg/Kg	1	7/24/2021 7:56:23 AM	61501
Ethylbenzene	ND	0.048		mg/Kg	1	7/24/2021 7:56:23 AM	61501
Xylenes, Total	ND	0.096		mg/Kg	1	7/24/2021 7:56:23 AM	61501
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	7/24/2021 7:56:23 AM	61501

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP8-S

Project: Jackson B 55

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

Lab ID: 2107A94-015

Matrix: SOIL

Received Date: 7/22/2021 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	ND	60		mg/Kg	20	7/27/2021 8:16:33 PM	61585
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/25/2021 5:12:55 AM	61519
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/25/2021 5:12:55 AM	61519
Surr: DNOP	119	70-130		%Rec	1	7/25/2021 5:12:55 AM	61519
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/24/2021 9:07:12 AM	61501
Surr: BFB	91.1	70-130		%Rec	1	7/24/2021 9:07:12 AM	61501
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/24/2021 9:07:12 AM	61501
Toluene	ND	0.048		mg/Kg	1	7/24/2021 9:07:12 AM	61501
Ethylbenzene	ND	0.048		mg/Kg	1	7/24/2021 9:07:12 AM	61501
Xylenes, Total	ND	0.097		mg/Kg	1	7/24/2021 9:07:12 AM	61501
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	7/24/2021 9:07:12 AM	61501

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP8-2

Project: Jackson B 55

Collection Date: 7/21/2021 9:40:00 AM

Lab ID: 2107A94-016

Matrix: SOIL

Received Date: 7/22/2021 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	800	59		mg/Kg	20	7/27/2021 8:28:57 PM	61585
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/25/2021 5:36:34 AM	61519
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/25/2021 5:36:34 AM	61519
Surr: DNOP	118	70-130		%Rec	1	7/25/2021 5:36:34 AM	61519
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/24/2021 9:30:43 AM	61501
Surr: BFB	91.5	70-130		%Rec	1	7/24/2021 9:30:43 AM	61501
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	7/24/2021 9:30:43 AM	61501
Toluene	ND	0.049		mg/Kg	1	7/24/2021 9:30:43 AM	61501
Ethylbenzene	ND	0.049		mg/Kg	1	7/24/2021 9:30:43 AM	61501
Xylenes, Total	ND	0.099		mg/Kg	1	7/24/2021 9:30:43 AM	61501
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	7/24/2021 9:30:43 AM	61501

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP9-S

Project: Jackson B 55

Collection Date: 7/21/2021 9:50:00 AM

Lab ID: 2107A94-017

Matrix: SOIL

Received Date: 7/22/2021 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	ND	60		mg/Kg	20	7/27/2021 8:41:22 PM	61585
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	7/25/2021 6:00:10 AM	61519
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/25/2021 6:00:10 AM	61519
Surr: DNOP	122	70-130		%Rec	1	7/25/2021 6:00:10 AM	61519
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/24/2021 9:54:19 AM	61501
Surr: BFB	91.9	70-130		%Rec	1	7/24/2021 9:54:19 AM	61501
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/24/2021 9:54:19 AM	61501
Toluene	ND	0.048		mg/Kg	1	7/24/2021 9:54:19 AM	61501
Ethylbenzene	ND	0.048		mg/Kg	1	7/24/2021 9:54:19 AM	61501
Xylenes, Total	ND	0.097		mg/Kg	1	7/24/2021 9:54:19 AM	61501
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	7/24/2021 9:54:19 AM	61501

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP9-2

Project: Jackson B 55

Collection Date: 7/21/2021 9:55:00 AM

Lab ID: 2107A94-018

Matrix: SOIL

Received Date: 7/22/2021 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	ND	59		mg/Kg	20	7/27/2021 9:18:37 PM	61585
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	7/25/2021 6:23:39 AM	61519
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/25/2021 6:23:39 AM	61519
Surr: DNOP	122	70-130		%Rec	1	7/25/2021 6:23:39 AM	61519
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/24/2021 10:17:55 AM	61501
Surr: BFB	91.3	70-130		%Rec	1	7/24/2021 10:17:55 AM	61501
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	7/24/2021 10:17:55 AM	61501
Toluene	ND	0.050		mg/Kg	1	7/24/2021 10:17:55 AM	61501
Ethylbenzene	ND	0.050		mg/Kg	1	7/24/2021 10:17:55 AM	61501
Xylenes, Total	ND	0.099		mg/Kg	1	7/24/2021 10:17:55 AM	61501
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	7/24/2021 10:17:55 AM	61501

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP10-S

Project: Jackson B 55

Collection Date: 7/21/2021 10:20:00 AM

Lab ID: 2107A94-019

Matrix: SOIL

Received Date: 7/22/2021 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	ND	60		mg/Kg	20	7/27/2021 9:31:02 PM	61585
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/24/2021 10:45:40 AM	61521
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/24/2021 10:45:40 AM	61521
Surr: DNOP	104	70-130		%Rec	1	7/24/2021 10:45:40 AM	61521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/26/2021 12:54:16 PM	61502
Surr: BFB	95.7	70-130		%Rec	1	7/26/2021 12:54:16 PM	61502
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/26/2021 12:54:16 PM	61502
Toluene	ND	0.048		mg/Kg	1	7/26/2021 12:54:16 PM	61502
Ethylbenzene	ND	0.048		mg/Kg	1	7/26/2021 12:54:16 PM	61502
Xylenes, Total	ND	0.097		mg/Kg	1	7/26/2021 12:54:16 PM	61502
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	7/26/2021 12:54:16 PM	61502

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP10-2

Project: Jackson B 55

Collection Date: 7/21/2021 10:25:00 AM

Lab ID: 2107A94-020

Matrix: SOIL

Received Date: 7/22/2021 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	ND	60		mg/Kg	20	7/27/2021 9:43:26 PM	61585
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/24/2021 11:14:28 AM	61521
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/24/2021 11:14:28 AM	61521
Surr: DNOP	117	70-130		%Rec	1	7/24/2021 11:14:28 AM	61521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/26/2021 2:04:54 PM	61502
Surr: BFB	94.9	70-130		%Rec	1	7/26/2021 2:04:54 PM	61502
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	7/26/2021 2:04:54 PM	61502
Toluene	ND	0.049		mg/Kg	1	7/26/2021 2:04:54 PM	61502
Ethylbenzene	ND	0.049		mg/Kg	1	7/26/2021 2:04:54 PM	61502
Xylenes, Total	ND	0.098		mg/Kg	1	7/26/2021 2:04:54 PM	61502
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	7/26/2021 2:04:54 PM	61502

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP11-S

Project: Jackson B 55

Collection Date: 7/21/2021 10:30:00 AM

Lab ID: 2107A94-021

Matrix: SOIL

Received Date: 7/22/2021 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	ND	60		mg/Kg	20	7/27/2021 9:55:51 PM	61585
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	48	9.6		mg/Kg	1	7/26/2021 2:10:31 PM	61521
Motor Oil Range Organics (MRO)	58	48		mg/Kg	1	7/26/2021 2:10:31 PM	61521
Surr: DNOP	119	70-130		%Rec	1	7/26/2021 2:10:31 PM	61521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/26/2021 3:15:34 PM	61502
Surr: BFB	97.5	70-130		%Rec	1	7/26/2021 3:15:34 PM	61502
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	7/26/2021 3:15:34 PM	61502
Toluene	ND	0.049		mg/Kg	1	7/26/2021 3:15:34 PM	61502
Ethylbenzene	ND	0.049		mg/Kg	1	7/26/2021 3:15:34 PM	61502
Xylenes, Total	ND	0.099		mg/Kg	1	7/26/2021 3:15:34 PM	61502
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	7/26/2021 3:15:34 PM	61502

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP11-2

Project: Jackson B 55

Collection Date: 7/21/2021 10:40:00 AM

Lab ID: 2107A94-022

Matrix: SOIL

Received Date: 7/22/2021 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	ND	60		mg/Kg	20	7/27/2021 5:10:12 PM	61588
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	7/24/2021 11:33:43 AM	61521
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/24/2021 11:33:43 AM	61521
Surr: DNOP	108	70-130		%Rec	1	7/24/2021 11:33:43 AM	61521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/26/2021 3:39:12 PM	61502
Surr: BFB	98.1	70-130		%Rec	1	7/26/2021 3:39:12 PM	61502
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/26/2021 3:39:12 PM	61502
Toluene	ND	0.048		mg/Kg	1	7/26/2021 3:39:12 PM	61502
Ethylbenzene	ND	0.048		mg/Kg	1	7/26/2021 3:39:12 PM	61502
Xylenes, Total	ND	0.097		mg/Kg	1	7/26/2021 3:39:12 PM	61502
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/26/2021 3:39:12 PM	61502

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP12-S

Project: Jackson B 55

Collection Date: 7/21/2021 10:50:00 AM

Lab ID: 2107A94-023

Matrix: SOIL

Received Date: 7/22/2021 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	ND	60		mg/Kg	20	7/27/2021 5:22:37 PM	61588
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/24/2021 11:43:21 AM	61521
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/24/2021 11:43:21 AM	61521
Surr: DNOP	129	70-130		%Rec	1	7/24/2021 11:43:21 AM	61521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/26/2021 4:02:45 PM	61502
Surr: BFB	98.7	70-130		%Rec	1	7/26/2021 4:02:45 PM	61502
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/26/2021 4:02:45 PM	61502
Toluene	ND	0.048		mg/Kg	1	7/26/2021 4:02:45 PM	61502
Ethylbenzene	ND	0.048		mg/Kg	1	7/26/2021 4:02:45 PM	61502
Xylenes, Total	ND	0.096		mg/Kg	1	7/26/2021 4:02:45 PM	61502
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/26/2021 4:02:45 PM	61502

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP12-2

Project: Jackson B 55

Collection Date: 7/21/2021 10:55:00 AM

Lab ID: 2107A94-024

Matrix: SOIL

Received Date: 7/22/2021 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	ND	60		mg/Kg	20	7/27/2021 5:35:01 PM	61588
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/24/2021 12:02:43 PM	61521
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/24/2021 12:02:43 PM	61521
Surr: DNOP	102	70-130		%Rec	1	7/24/2021 12:02:43 PM	61521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/26/2021 4:26:17 PM	61502
Surr: BFB	96.7	70-130		%Rec	1	7/26/2021 4:26:17 PM	61502
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	7/26/2021 4:26:17 PM	61502
Toluene	ND	0.050		mg/Kg	1	7/26/2021 4:26:17 PM	61502
Ethylbenzene	ND	0.050		mg/Kg	1	7/26/2021 4:26:17 PM	61502
Xylenes, Total	ND	0.099		mg/Kg	1	7/26/2021 4:26:17 PM	61502
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	7/26/2021 4:26:17 PM	61502

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP13-S

Project: Jackson B 55

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

Lab ID: 2107A94-025

Matrix: SOIL

Received Date: 7/22/2021 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	77	59		mg/Kg	20	7/27/2021 5:47:26 PM	61588
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/24/2021 12:12:23 PM	61521
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/24/2021 12:12:23 PM	61521
Surr: DNOP	114	70-130		%Rec	1	7/24/2021 12:12:23 PM	61521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/26/2021 6:00:40 PM	61502
Surr: BFB	98.6	70-130		%Rec	1	7/26/2021 6:00:40 PM	61502
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	7/26/2021 6:00:40 PM	61502
Toluene	ND	0.050		mg/Kg	1	7/26/2021 6:00:40 PM	61502
Ethylbenzene	ND	0.050		mg/Kg	1	7/26/2021 6:00:40 PM	61502
Xylenes, Total	ND	0.10		mg/Kg	1	7/26/2021 6:00:40 PM	61502
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/26/2021 6:00:40 PM	61502

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP13-2

Project: Jackson B 55

Collection Date: 7/21/2021 11:05:00 AM

Lab ID: 2107A94-026

Matrix: SOIL

Received Date: 7/22/2021 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	ND	60		mg/Kg	20	7/27/2021 5:59:51 PM	61588
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/24/2021 12:31:43 PM	61521
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/24/2021 12:31:43 PM	61521
Surr: DNOP	120	70-130		%Rec	1	7/24/2021 12:31:43 PM	61521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/26/2021 6:24:12 PM	61502
Surr: BFB	100	70-130		%Rec	1	7/26/2021 6:24:12 PM	61502
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/26/2021 6:24:12 PM	61502
Toluene	ND	0.047		mg/Kg	1	7/26/2021 6:24:12 PM	61502
Ethylbenzene	ND	0.047		mg/Kg	1	7/26/2021 6:24:12 PM	61502
Xylenes, Total	ND	0.095		mg/Kg	1	7/26/2021 6:24:12 PM	61502
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	7/26/2021 6:24:12 PM	61502

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP14-S

Project: Jackson B 55

Collection Date: 7/21/2021 11:10:00 AM

Lab ID: 2107A94-027

Matrix: SOIL

Received Date: 7/22/2021 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	ND	61		mg/Kg	20	7/27/2021 6:12:15 PM	61588
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/24/2021 12:41:25 PM	61521
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/24/2021 12:41:25 PM	61521
Surr: DNOP	111	70-130		%Rec	1	7/24/2021 12:41:25 PM	61521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/26/2021 6:47:43 PM	61502
Surr: BFB	98.8	70-130		%Rec	1	7/26/2021 6:47:43 PM	61502
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	7/26/2021 6:47:43 PM	61502
Toluene	ND	0.049		mg/Kg	1	7/26/2021 6:47:43 PM	61502
Ethylbenzene	ND	0.049		mg/Kg	1	7/26/2021 6:47:43 PM	61502
Xylenes, Total	ND	0.099		mg/Kg	1	7/26/2021 6:47:43 PM	61502
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/26/2021 6:47:43 PM	61502

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP14-2

Project: Jackson B 55

Collection Date: 7/21/2021 11:15:00 AM

Lab ID: 2107A94-028

Matrix: SOIL

Received Date: 7/22/2021 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	62	60		mg/Kg	20	7/27/2021 6:49:29 PM	61588
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/24/2021 12:51:08 PM	61521
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/24/2021 12:51:08 PM	61521
Surr: DNOP	136	70-130	S	%Rec	1	7/24/2021 12:51:08 PM	61521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/26/2021 7:11:13 PM	61502
Surr: BFB	98.3	70-130		%Rec	1	7/26/2021 7:11:13 PM	61502
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/26/2021 7:11:13 PM	61502
Toluene	ND	0.047		mg/Kg	1	7/26/2021 7:11:13 PM	61502
Ethylbenzene	ND	0.047		mg/Kg	1	7/26/2021 7:11:13 PM	61502
Xylenes, Total	ND	0.095		mg/Kg	1	7/26/2021 7:11:13 PM	61502
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/26/2021 7:11:13 PM	61502

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP15-S

Project: Jackson B 55

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

Lab ID: 2107A94-029

Matrix: SOIL

Received Date: 7/22/2021 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	ND	60		mg/Kg	20	7/27/2021 7:01:54 PM	61588
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/24/2021 1:00:53 PM	61521
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/24/2021 1:00:53 PM	61521
Surr: DNOP	123	70-130		%Rec	1	7/24/2021 1:00:53 PM	61521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/26/2021 7:34:41 PM	61502
Surr: BFB	99.0	70-130		%Rec	1	7/26/2021 7:34:41 PM	61502
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/26/2021 7:34:41 PM	61502
Toluene	ND	0.048		mg/Kg	1	7/26/2021 7:34:41 PM	61502
Ethylbenzene	ND	0.048		mg/Kg	1	7/26/2021 7:34:41 PM	61502
Xylenes, Total	ND	0.096		mg/Kg	1	7/26/2021 7:34:41 PM	61502
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/26/2021 7:34:41 PM	61502

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP15-2

Project: Jackson B 55

Collection Date: 7/21/2021 11:25:00 AM

Lab ID: 2107A94-030

Matrix: SOIL

Received Date: 7/22/2021 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	60	60		mg/Kg	20	7/27/2021 7:14:19 PM	61588
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/24/2021 1:10:38 PM	61521
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/24/2021 1:10:38 PM	61521
Surr: DNOP	149	70-130	S	%Rec	1	7/24/2021 1:10:38 PM	61521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/26/2021 7:58:13 PM	61502
Surr: BFB	98.6	70-130		%Rec	1	7/26/2021 7:58:13 PM	61502
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/26/2021 7:58:13 PM	61502
Toluene	ND	0.048		mg/Kg	1	7/26/2021 7:58:13 PM	61502
Ethylbenzene	ND	0.048		mg/Kg	1	7/26/2021 7:58:13 PM	61502
Xylenes, Total	ND	0.095		mg/Kg	1	7/26/2021 7:58:13 PM	61502
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/26/2021 7:58:13 PM	61502

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP16-S

Project: Jackson B 55

Collection Date: 7/21/2021 11:30:00 AM

Lab ID: 2107A94-031

Matrix: SOIL

Received Date: 7/22/2021 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	83	60		mg/Kg	20	7/27/2021 7:26:43 PM	61588
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/24/2021 1:20:22 PM	61521
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/24/2021 1:20:22 PM	61521
Surr: DNOP	114	70-130		%Rec	1	7/24/2021 1:20:22 PM	61521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/26/2021 8:21:40 PM	61502
Surr: BFB	97.6	70-130		%Rec	1	7/26/2021 8:21:40 PM	61502
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/26/2021 8:21:40 PM	61502
Toluene	ND	0.048		mg/Kg	1	7/26/2021 8:21:40 PM	61502
Ethylbenzene	ND	0.048		mg/Kg	1	7/26/2021 8:21:40 PM	61502
Xylenes, Total	ND	0.097		mg/Kg	1	7/26/2021 8:21:40 PM	61502
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/26/2021 8:21:40 PM	61502

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP16-2

Project: Jackson B 55

Collection Date: 7/21/2021 11:35:00 AM

Lab ID: 2107A94-032

Matrix: SOIL

Received Date: 7/22/2021 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	66	60		mg/Kg	20	7/27/2021 7:39:07 PM	61588
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/24/2021 1:30:08 PM	61521
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/24/2021 1:30:08 PM	61521
Surr: DNOP	111	70-130		%Rec	1	7/24/2021 1:30:08 PM	61521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/26/2021 8:45:08 PM	61502
Surr: BFB	98.0	70-130		%Rec	1	7/26/2021 8:45:08 PM	61502
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/26/2021 8:45:08 PM	61502
Toluene	ND	0.049		mg/Kg	1	7/26/2021 8:45:08 PM	61502
Ethylbenzene	ND	0.049		mg/Kg	1	7/26/2021 8:45:08 PM	61502
Xylenes, Total	ND	0.097		mg/Kg	1	7/26/2021 8:45:08 PM	61502
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/26/2021 8:45:08 PM	61502

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP17-S

Project: Jackson B 55

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

Lab ID: 2107A94-033

Matrix: SOIL

Received Date: 7/22/2021 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	7/27/2021 7:51:32 PM	61588
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	7/24/2021 1:39:55 PM	61521
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/24/2021 1:39:55 PM	61521
Surr: DNOP	127	70-130		%Rec	1	7/24/2021 1:39:55 PM	61521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/26/2021 9:08:32 PM	61502
Surr: BFB	97.6	70-130		%Rec	1	7/26/2021 9:08:32 PM	61502
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	7/26/2021 9:08:32 PM	61502
Toluene	ND	0.047		mg/Kg	1	7/26/2021 9:08:32 PM	61502
Ethylbenzene	ND	0.047		mg/Kg	1	7/26/2021 9:08:32 PM	61502
Xylenes, Total	ND	0.093		mg/Kg	1	7/26/2021 9:08:32 PM	61502
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/26/2021 9:08:32 PM	61502

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP17-2

Project: Jackson B 55

Collection Date: 7/21/2021 11:50:00 AM

Lab ID: 2107A94-034

Matrix: SOIL

Received Date: 7/22/2021 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	330	60		mg/Kg	20	7/27/2021 8:03:56 PM	61588
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	7/24/2021 1:49:43 PM	61521
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/24/2021 1:49:43 PM	61521
Surr: DNOP	134	70-130	S	%Rec	1	7/24/2021 1:49:43 PM	61521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/26/2021 9:31:57 PM	61502
Surr: BFB	97.4	70-130		%Rec	1	7/26/2021 9:31:57 PM	61502
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/26/2021 9:31:57 PM	61502
Toluene	ND	0.048		mg/Kg	1	7/26/2021 9:31:57 PM	61502
Ethylbenzene	ND	0.048		mg/Kg	1	7/26/2021 9:31:57 PM	61502
Xylenes, Total	ND	0.097		mg/Kg	1	7/26/2021 9:31:57 PM	61502
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	7/26/2021 9:31:57 PM	61502

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP18-S

Project: Jackson B 55

Collection Date: 7/21/2021 12:00:00 PM

Lab ID: 2107A94-035

Matrix: SOIL

Received Date: 7/22/2021 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	ND	60		mg/Kg	20	7/27/2021 8:16:21 PM	61588
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	7/24/2021 1:59:41 PM	61521
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/24/2021 1:59:41 PM	61521
Surr: DNOP	138	70-130	S	%Rec	1	7/24/2021 1:59:41 PM	61521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/26/2021 10:42:24 PM	61502
Surr: BFB	98.9	70-130		%Rec	1	7/26/2021 10:42:24 PM	61502
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	7/26/2021 10:42:24 PM	61502
Toluene	ND	0.049		mg/Kg	1	7/26/2021 10:42:24 PM	61502
Ethylbenzene	ND	0.049		mg/Kg	1	7/26/2021 10:42:24 PM	61502
Xylenes, Total	ND	0.099		mg/Kg	1	7/26/2021 10:42:24 PM	61502
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/26/2021 10:42:24 PM	61502

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 2107A94

Date Reported: 7/30/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: TP18-2

Project: Jackson B 55

Collection Date: 7/21/2021 12:05:00 PM

Lab ID: 2107A94-036

Matrix: SOIL

Received Date: 7/22/2021 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	150	61		mg/Kg	20	7/27/2021 8:28:46 PM	61588
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/24/2021 2:09:38 PM	61521
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/24/2021 2:09:38 PM	61521
Surr: DNOP	139	70-130	S	%Rec	1	7/24/2021 2:09:38 PM	61521
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/26/2021 11:05:49 PM	61502
Surr: BFB	99.4	70-130		%Rec	1	7/26/2021 11:05:49 PM	61502
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	7/26/2021 11:05:49 PM	61502
Toluene	ND	0.048		mg/Kg	1	7/26/2021 11:05:49 PM	61502
Ethylbenzene	ND	0.048		mg/Kg	1	7/26/2021 11:05:49 PM	61502
Xylenes, Total	ND	0.097		mg/Kg	1	7/26/2021 11:05:49 PM	61502
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/26/2021 11:05:49 PM	61502

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

WO#: 2107A94

30-Jul-21

**Client:** GHD Midland**Project:** Jackson B 55

Sample ID: <b>MB-61578</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61578</b>	RunNo: <b>80089</b>								
Prep Date: <b>7/27/2021</b>	Analysis Date: <b>7/27/2021</b>	SeqNo: <b>2820505</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-61578</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61578</b>	RunNo: <b>80089</b>								
Prep Date: <b>7/27/2021</b>	Analysis Date: <b>7/27/2021</b>	SeqNo: <b>2820506</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-61585</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61585</b>	RunNo: <b>80089</b>								
Prep Date: <b>7/27/2021</b>	Analysis Date: <b>7/27/2021</b>	SeqNo: <b>2820535</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-61585</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61585</b>	RunNo: <b>80089</b>								
Prep Date: <b>7/27/2021</b>	Analysis Date: <b>7/27/2021</b>	SeqNo: <b>2820536</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	95.3	90	110			

Sample ID: <b>MB-61588</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61588</b>	RunNo: <b>80085</b>								
Prep Date: <b>7/27/2021</b>	Analysis Date: <b>7/27/2021</b>	SeqNo: <b>2821073</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-61588</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61588</b>	RunNo: <b>80085</b>								
Prep Date: <b>7/27/2021</b>	Analysis Date: <b>7/27/2021</b>	SeqNo: <b>2821074</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

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

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

WO#: 2107A94

30-Jul-21

**Client:** GHD Midland**Project:** Jackson B 55

Sample ID: <b>MB-61521</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61521</b>	RunNo: <b>80054</b>								
Prep Date: <b>7/23/2021</b>	Analysis Date: <b>7/24/2021</b>	SeqNo: <b>2817111</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	15		10.00		149	70	130			S

Sample ID: <b>LCS-61521</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61521</b>	RunNo: <b>80054</b>								
Prep Date: <b>7/23/2021</b>	Analysis Date: <b>7/24/2021</b>	SeqNo: <b>2817113</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	64	10	50.00	0	129	68.9	141			
Surr: DNOP	6.2		5.000		124	70	130			

Sample ID: <b>2107A94-019AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>TP10-S</b>	Batch ID: <b>61521</b>	RunNo: <b>80054</b>								
Prep Date: <b>7/23/2021</b>	Analysis Date: <b>7/24/2021</b>	SeqNo: <b>2817115</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	9.8	49.21	0	106	15	184			
Surr: DNOP	4.7		4.921		96.2	70	130			

Sample ID: <b>2107A94-019AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>TP10-S</b>	Batch ID: <b>61521</b>	RunNo: <b>80054</b>								
Prep Date: <b>7/23/2021</b>	Analysis Date: <b>7/24/2021</b>	SeqNo: <b>2817117</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	9.9	49.60	0	104	15	184	1.69	23.9	
Surr: DNOP	4.9		4.960		99.6	70	130	0	0	

Sample ID: <b>MB-61519</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61519</b>	RunNo: <b>80063</b>								
Prep Date: <b>7/23/2021</b>	Analysis Date: <b>7/24/2021</b>	SeqNo: <b>2817775</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	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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2107A94  
30-Jul-21

Client: GHD Midland  
Project: Jackson B 55

Sample ID: LCS-61519	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 61519	RunNo: 80063								
Prep Date: 7/23/2021	Analysis Date: 7/24/2021	SeqNo: 2817777		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	105	68.9	141			
Surr: DNOP	5.3		5.000		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

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

WO#: 2107A94

30-Jul-21

**Client:** GHD Midland**Project:** Jackson B 55

Sample ID: <b>mb-61501</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61501</b>	RunNo: <b>80051</b>								
Prep Date: <b>7/22/2021</b>	Analysis Date: <b>7/24/2021</b>	SeqNo: <b>2816733</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		93.0	70	130			

Sample ID: <b>lcs-61501</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61501</b>	RunNo: <b>80051</b>								
Prep Date: <b>7/22/2021</b>	Analysis Date: <b>7/23/2021</b>	SeqNo: <b>2816734</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	93.7	78.6	131			
Surr: BFB	1000		1000		99.8	70	130			

Sample ID: <b>mb-61502</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61502</b>	RunNo: <b>80082</b>								
Prep Date: <b>7/22/2021</b>	Analysis Date: <b>7/26/2021</b>	SeqNo: <b>2818594</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	910		1000		91.3	70	130			

Sample ID: <b>LCS-61502</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61502</b>	RunNo: <b>80082</b>								
Prep Date: <b>7/22/2021</b>	Analysis Date: <b>7/26/2021</b>	SeqNo: <b>2818595</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	102	78.6	131			
Surr: BFB	1100		1000		105	70	130			

Sample ID: <b>2107a94-019ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>TP10-S</b>	Batch ID: <b>61502</b>	RunNo: <b>80082</b>								
Prep Date: <b>7/22/2021</b>	Analysis Date: <b>7/26/2021</b>	SeqNo: <b>2818597</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	4.8	24.13	0	98.9	61.3	114			
Surr: BFB	1000		965.3		106	70	130			

Sample ID: <b>2107a94-019amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>TP10-S</b>	Batch ID: <b>61502</b>	RunNo: <b>80082</b>								
Prep Date: <b>7/22/2021</b>	Analysis Date: <b>7/26/2021</b>	SeqNo: <b>2818598</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#: 2107A94  
30-Jul-21

Client: GHD Midland  
Project: Jackson B 55

Sample ID: 2107a94-019amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: TP10-S		Batch ID: 61502		RunNo: 80082						
Prep Date: 7/22/2021		Analysis Date: 7/26/2021		SeqNo: 2818598		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.37	0	97.2	61.3	114	0.744	20	
Surr: BFB	1000		974.7		106	70	130	0	0	

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical 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#: 2107A94

30-Jul-21

**Client:** GHD Midland**Project:** Jackson B 55

Sample ID: <b>mb-61501</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61501</b>	RunNo: <b>80051</b>								
Prep Date: <b>7/22/2021</b>	Analysis Date: <b>7/24/2021</b>	SeqNo: <b>2816787</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		96.1	70	130			

Sample ID: <b>LCS-61501</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61501</b>	RunNo: <b>80051</b>								
Prep Date: <b>7/22/2021</b>	Analysis Date: <b>7/23/2021</b>	SeqNo: <b>2816789</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	95.2	80	120			
Toluene	0.97	0.050	1.000	0	96.8	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.0	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.1	70	130			

Sample ID: <b>mb-61502</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>61502</b>	RunNo: <b>80082</b>								
Prep Date: <b>7/22/2021</b>	Analysis Date: <b>7/26/2021</b>	SeqNo: <b>2818643</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	0.93		1.000		92.9	70	130			

Sample ID: <b>LCS-61502</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>61502</b>	RunNo: <b>80082</b>								
Prep Date: <b>7/22/2021</b>	Analysis Date: <b>7/26/2021</b>	SeqNo: <b>2818644</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	91.8	80	120			
Toluene	0.93	0.050	1.000	0	93.4	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.6	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.2	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical 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#: **2107A94****30-Jul-21****Client:** GHD Midland**Project:** Jackson B 55

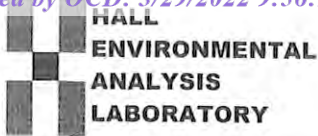
Sample ID: <b>2107a94-020ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>TP10-2</b>	Batch ID: <b>61502</b>	RunNo: <b>80082</b>								
Prep Date: <b>7/22/2021</b>	Analysis Date: <b>7/26/2021</b>	SeqNo: <b>2818647</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	0.9930	0	89.8	80	120			
Toluene	0.91	0.050	0.9930	0	92.1	80	120			
Ethylbenzene	0.92	0.050	0.9930	0	92.6	80	120			
Xylenes, Total	2.8	0.099	2.979	0	92.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		0.9930		103	70	130			

Sample ID: <b>2107a94-020amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>TP10-2</b>	Batch ID: <b>61502</b>	RunNo: <b>80082</b>								
Prep Date: <b>7/22/2021</b>	Analysis Date: <b>7/26/2021</b>	SeqNo: <b>2818648</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	0.9823	0	89.7	80	120	1.23	20	
Toluene	0.90	0.049	0.9823	0	91.7	80	120	1.53	20	
Ethylbenzene	0.90	0.049	0.9823	0	92.0	80	120	1.80	20	
Xylenes, Total	2.7	0.098	2.947	0	92.9	80	120	1.11	20	
Surr: 4-Bromofluorobenzene	1.0		0.9823		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



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: 2107A94

RcptNo: 1

Received By: Juan Rojas

7/22/2021 7:30:00 AM

Completed By: Isaiah Ortiz

7/22/2021 8:15:53 AM

Reviewed By:

JR 7/22/21

Chain of Custody

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

Log In

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

# of preserved  
bottles checked  
for pH:

(&lt;2 or &gt;12 unless noted)

Adjusted?

Checked by:

SPA 7-22-21

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.5	Good	Not Present			
2	1.4	Good	Not Present			

## Chain-of-Custody Record

Client: GHD

Turn-Around Time: 5 days

☒ Standard ☐ Rush

Project Name:

Jackson B # 55

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Mailing Address:

324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

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

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Project Manager:

Becky Haskell

Tom Larson

Sampler: ~~Zach Comino~~ Heath BoydOn Ice: ☒ Yes ☐ No

# of Coolers: 2

Cooler Temp (including CF): 5.6-0.155

Container Type and #

Preservative Type

HEAL No.

2107A94

N/A

- 001

- 002

- 003

- 004

- 005

- 006

- 007

- 008

- 009

- 010

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- 012

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## 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

Project Name:

Jackson B # 5

Project #:

11223609

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

# of Coolers: 2

Cooler Temp (including CF): 55.0-61.5-5.5

Container Type and #

Preservative Type

HEAL No.

21671A94

402. Jan 1 N/A

025

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## Analysis Request

BTX / MTBE / TMB's (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>, PO<sub>4</sub>, SO<sub>4</sub>

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Chloride Method 300

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

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



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

November 11, 2021

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

RE: Jackson B 55

OrderNo.: 2111126

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 32 sample(s) on 11/3/2021 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 light blue horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-1

Project: Jackson B 55

Collection Date: 11/1/2021 2:00:00 PM

Lab ID: 2111126-001

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	410	60		mg/Kg	20	11/3/2021 10:35:02 PM	63750
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/4/2021 10:35:13 AM	63743
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/4/2021 10:35:13 AM	63743
Surr: DNOP	74.2	70-130		%Rec	1	11/4/2021 10:35:13 AM	63743
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/4/2021 4:10:00 PM	63721
Surr: BFB	99.4	70-130		%Rec	1	11/4/2021 4:10:00 PM	63721
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	11/4/2021 4:10:00 PM	63721
Toluene	ND	0.047		mg/Kg	1	11/4/2021 4:10:00 PM	63721
Ethylbenzene	ND	0.047		mg/Kg	1	11/4/2021 4:10:00 PM	63721
Xylenes, Total	ND	0.094		mg/Kg	1	11/4/2021 4:10:00 PM	63721
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	11/4/2021 4:10:00 PM	63721

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 interference		

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## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-2

Project: Jackson B 55

Collection Date: 11/1/2021 2:05:00 PM

Lab ID: 2111126-002

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	280	60		mg/Kg	20	11/3/2021 10:47:27 PM	63750
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/4/2021 10:59:22 AM	63743
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/4/2021 10:59:22 AM	63743
Surr: DNOP	123	70-130		%Rec	1	11/4/2021 10:59:22 AM	63743
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/4/2021 4:29:00 PM	63721
Surr: BFB	95.9	70-130		%Rec	1	11/4/2021 4:29:00 PM	63721
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	11/4/2021 4:29:00 PM	63721
Toluene	ND	0.050		mg/Kg	1	11/4/2021 4:29:00 PM	63721
Ethylbenzene	ND	0.050		mg/Kg	1	11/4/2021 4:29:00 PM	63721
Xylenes, Total	ND	0.099		mg/Kg	1	11/4/2021 4:29:00 PM	63721
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	11/4/2021 4:29:00 PM	63721

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 interference		

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## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-3

Project: Jackson B 55

Collection Date: 11/1/2021 2:10:00 PM

Lab ID: 2111126-003

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	470	59		mg/Kg	20	11/4/2021 10:16:46 AM	63762
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/4/2021 11:23:40 AM	63743
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/4/2021 11:23:40 AM	63743
Surr: DNOP	100	70-130		%Rec	1	11/4/2021 11:23:40 AM	63743
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/4/2021 4:49:00 PM	63721
Surr: BFB	94.6	70-130		%Rec	1	11/4/2021 4:49:00 PM	63721
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.025		mg/Kg	1	11/4/2021 4:49:00 PM	63721
Toluene	ND	0.050		mg/Kg	1	11/4/2021 4:49:00 PM	63721
Ethylbenzene	ND	0.050		mg/Kg	1	11/4/2021 4:49:00 PM	63721
Xylenes, Total	ND	0.099		mg/Kg	1	11/4/2021 4:49:00 PM	63721
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/4/2021 4:49:00 PM	63721

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 interference		

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## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-4

Project: Jackson B 55

Collection Date: 11/1/2021 2:15:00 PM

Lab ID: 2111126-004

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	74	60		mg/Kg	20	11/4/2021 10:53:59 AM	63762
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/4/2021 11:47:50 AM	63743
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/4/2021 11:47:50 AM	63743
Surr: DNOP	78.2	70-130		%Rec	1	11/4/2021 11:47:50 AM	63743
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2021 6:46:00 PM	63726
Surr: BFB	105	70-130		%Rec	1	11/4/2021 6:46:00 PM	63726
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.024		mg/Kg	1	11/4/2021 6:46:00 PM	63726
Toluene	ND	0.048		mg/Kg	1	11/4/2021 6:46:00 PM	63726
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2021 6:46:00 PM	63726
Xylenes, Total	ND	0.097		mg/Kg	1	11/4/2021 6:46:00 PM	63726
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	11/4/2021 6:46:00 PM	63726

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 interference		

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## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-5

Project: Jackson B 55

Collection Date: 11/1/2021 2:20:00 PM

Lab ID: 2111126-005

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	80	60		mg/Kg	20	11/4/2021 11:06:23 AM	63762
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/4/2021 12:11:50 PM	63743
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/4/2021 12:11:50 PM	63743
Surr: DNOP	119	70-130		%Rec	1	11/4/2021 12:11:50 PM	63743
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/4/2021 7:45:00 PM	63726
Surr: BFB	95.1	70-130		%Rec	1	11/4/2021 7:45:00 PM	63726
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.025		mg/Kg	1	11/4/2021 7:45:00 PM	63726
Toluene	ND	0.050		mg/Kg	1	11/4/2021 7:45:00 PM	63726
Ethylbenzene	ND	0.050		mg/Kg	1	11/4/2021 7:45:00 PM	63726
Xylenes, Total	ND	0.10		mg/Kg	1	11/4/2021 7:45:00 PM	63726
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	11/4/2021 7:45:00 PM	63726

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 interference		

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## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-6

Project: Jackson B 55

Collection Date: 11/1/2021 2:25:00 PM

Lab ID: 2111126-006

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	ND	60		mg/Kg	20	11/4/2021 11:43:37 AM	63762
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/4/2021 12:35:56 PM	63743
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/4/2021 12:35:56 PM	63743
Surr: DNOP	116	70-130		%Rec	1	11/4/2021 12:35:56 PM	63743
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/4/2021 8:44:00 PM	63726
Surr: BFB	90.3	70-130		%Rec	1	11/4/2021 8:44:00 PM	63726
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.024		mg/Kg	1	11/4/2021 8:44:00 PM	63726
Toluene	ND	0.049		mg/Kg	1	11/4/2021 8:44:00 PM	63726
Ethylbenzene	ND	0.049		mg/Kg	1	11/4/2021 8:44:00 PM	63726
Xylenes, Total	ND	0.098		mg/Kg	1	11/4/2021 8:44:00 PM	63726
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	11/4/2021 8:44:00 PM	63726

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 interference		

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## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-7

Project: Jackson B 55

Collection Date: 11/1/2021 2:30:00 PM

Lab ID: 2111126-007

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	99	60		mg/Kg	20	11/4/2021 12:20:52 PM	63762
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/4/2021 1:00:00 PM	63743
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/4/2021 1:00:00 PM	63743
Surr: DNOP	120	70-130		%Rec	1	11/4/2021 1:00:00 PM	63743
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/4/2021 9:04:00 PM	63726
Surr: BFB	96.3	70-130		%Rec	1	11/4/2021 9:04:00 PM	63726
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.023		mg/Kg	1	11/4/2021 9:04:00 PM	63726
Toluene	ND	0.047		mg/Kg	1	11/4/2021 9:04:00 PM	63726
Ethylbenzene	ND	0.047		mg/Kg	1	11/4/2021 9:04:00 PM	63726
Xylenes, Total	ND	0.094		mg/Kg	1	11/4/2021 9:04:00 PM	63726
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	11/4/2021 9:04:00 PM	63726

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 interference		

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## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-8

Project: Jackson B 55

Collection Date: 11/1/2021 2:35:00 PM

Lab ID: 2111126-008

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	220	60		mg/Kg	20	11/4/2021 12:33:17 PM	63762
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/4/2021 1:24:09 PM	63743
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/4/2021 1:24:09 PM	63743
Surr: DNOP	110	70-130		%Rec	1	11/4/2021 1:24:09 PM	63743
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/4/2021 9:23:00 PM	63726
Surr: BFB	98.4	70-130		%Rec	1	11/4/2021 9:23:00 PM	63726
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.024		mg/Kg	1	11/4/2021 9:23:00 PM	63726
Toluene	ND	0.049		mg/Kg	1	11/4/2021 9:23:00 PM	63726
Ethylbenzene	ND	0.049		mg/Kg	1	11/4/2021 9:23:00 PM	63726
Xylenes, Total	ND	0.097		mg/Kg	1	11/4/2021 9:23:00 PM	63726
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	11/4/2021 9:23:00 PM	63726

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 interference		

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## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-9

Project: Jackson B 55

Collection Date: 11/1/2021 2:40:00 PM

Lab ID: 2111126-009

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 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	11/6/2021 1:14:28 AM	63762
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/4/2021 1:48:17 PM	63743
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/4/2021 1:48:17 PM	63743
Surr: DNOP	93.8	70-130		%Rec	1	11/4/2021 1:48:17 PM	63743
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2021 9:43:00 PM	63726
Surr: BFB	102	70-130		%Rec	1	11/4/2021 9:43:00 PM	63726
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.024		mg/Kg	1	11/4/2021 9:43:00 PM	63726
Toluene	ND	0.048		mg/Kg	1	11/4/2021 9:43:00 PM	63726
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2021 9:43:00 PM	63726
Xylenes, Total	ND	0.096		mg/Kg	1	11/4/2021 9:43:00 PM	63726
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	11/4/2021 9:43:00 PM	63726

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 interference		

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## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-10

Project: Jackson B 55

Collection Date: 11/1/2021 2:45:00 PM

Lab ID: 2111126-010

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	120	60		mg/Kg	20	11/4/2021 12:58:05 PM	63762
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/4/2021 2:12:17 PM	63743
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/4/2021 2:12:17 PM	63743
Surr: DNOP	116	70-130		%Rec	1	11/4/2021 2:12:17 PM	63743
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/4/2021 10:02:00 PM	63726
Surr: BFB	95.3	70-130		%Rec	1	11/4/2021 10:02:00 PM	63726
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.023		mg/Kg	1	11/4/2021 10:02:00 PM	63726
Toluene	ND	0.047		mg/Kg	1	11/4/2021 10:02:00 PM	63726
Ethylbenzene	ND	0.047		mg/Kg	1	11/4/2021 10:02:00 PM	63726
Xylenes, Total	ND	0.093		mg/Kg	1	11/4/2021 10:02:00 PM	63726
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	11/4/2021 10:02:00 PM	63726

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 interference		

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## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-11

Project: Jackson B 55

Collection Date: 11/1/2021 2:50:00 PM

Lab ID: 2111126-011

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	970	60		mg/Kg	20	11/4/2021 1:10:30 PM	63762
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/4/2021 3:00:34 PM	63743
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/4/2021 3:00:34 PM	63743
Surr: DNOP	103	70-130		%Rec	1	11/4/2021 3:00:34 PM	63743
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/4/2021 10:22:00 PM	63726
Surr: BFB	98.8	70-130		%Rec	1	11/4/2021 10:22:00 PM	63726
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.025		mg/Kg	1	11/4/2021 10:22:00 PM	63726
Toluene	ND	0.050		mg/Kg	1	11/4/2021 10:22:00 PM	63726
Ethylbenzene	ND	0.050		mg/Kg	1	11/4/2021 10:22:00 PM	63726
Xylenes, Total	ND	0.099		mg/Kg	1	11/4/2021 10:22:00 PM	63726
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	11/4/2021 10:22:00 PM	63726

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 interference		

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## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-12

Project: Jackson B 55

Collection Date: 11/1/2021 2:55:00 PM

Lab ID: 2111126-012

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	640	60		mg/Kg	20	11/4/2021 1:22:55 PM	63762
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/4/2021 3:24:45 PM	63743
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/4/2021 3:24:45 PM	63743
Surr: DNOP	97.7	70-130		%Rec	1	11/4/2021 3:24:45 PM	63743
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/4/2021 10:42:00 PM	63726
Surr: BFB	97.8	70-130		%Rec	1	11/4/2021 10:42:00 PM	63726
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.023		mg/Kg	1	11/4/2021 10:42:00 PM	63726
Toluene	ND	0.047		mg/Kg	1	11/4/2021 10:42:00 PM	63726
Ethylbenzene	ND	0.047		mg/Kg	1	11/4/2021 10:42:00 PM	63726
Xylenes, Total	ND	0.094		mg/Kg	1	11/4/2021 10:42:00 PM	63726
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	11/4/2021 10:42:00 PM	63726

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 interference		

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## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-13

Project: Jackson B 55

Collection Date: 11/1/2021 3:00:00 PM

Lab ID: 2111126-013

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	110	60		mg/Kg	20	11/4/2021 1:35:20 PM	63762
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/4/2021 3:48:51 PM	63743
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/4/2021 3:48:51 PM	63743
Surr: DNOP	85.0	70-130		%Rec	1	11/4/2021 3:48:51 PM	63743
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/4/2021 11:01:00 PM	63726
Surr: BFB	96.2	70-130		%Rec	1	11/4/2021 11:01:00 PM	63726
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.023		mg/Kg	1	11/4/2021 11:01:00 PM	63726
Toluene	ND	0.047		mg/Kg	1	11/4/2021 11:01:00 PM	63726
Ethylbenzene	ND	0.047		mg/Kg	1	11/4/2021 11:01:00 PM	63726
Xylenes, Total	ND	0.093		mg/Kg	1	11/4/2021 11:01:00 PM	63726
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	11/4/2021 11:01:00 PM	63726

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 interference		

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## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-14

Project: Jackson B 55

Collection Date: 11/1/2021 3:05:00 PM

Lab ID: 2111126-014

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>CAS</b>
Chloride	97	60		mg/Kg	20	11/4/2021 1:47:45 PM	63762
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/4/2021 4:13:04 PM	63743
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/4/2021 4:13:04 PM	63743
Surr: DNOP	125	70-130		%Rec	1	11/4/2021 4:13:04 PM	63743
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/5/2021	63726
Surr: BFB	96.2	70-130		%Rec	1	11/5/2021	63726
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.024		mg/Kg	1	11/5/2021	63726
Toluene	ND	0.048		mg/Kg	1	11/5/2021	63726
Ethylbenzene	ND	0.048		mg/Kg	1	11/5/2021	63726
Xylenes, Total	ND	0.096		mg/Kg	1	11/5/2021	63726
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	11/5/2021	63726

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 interference		

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## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-15

Project: Jackson B 55

Collection Date: 11/1/2021 3:10:00 PM

Lab ID: 2111126-015

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	11/4/2021 10:14:41 AM	63763
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/4/2021 4:37:13 PM	63743
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/4/2021 4:37:13 PM	63743
Surr: DNOP	96.2	70-130		%Rec	1	11/4/2021 4:37:13 PM	63743
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/5/2021 12:20:00 AM	63726
Surr: BFB	98.6	70-130		%Rec	1	11/5/2021 12:20:00 AM	63726
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.025		mg/Kg	1	11/5/2021 12:20:00 AM	63726
Toluene	ND	0.050		mg/Kg	1	11/5/2021 12:20:00 AM	63726
Ethylbenzene	ND	0.050		mg/Kg	1	11/5/2021 12:20:00 AM	63726
Xylenes, Total	ND	0.099		mg/Kg	1	11/5/2021 12:20:00 AM	63726
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	11/5/2021 12:20:00 AM	63726

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 interference		

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## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-16

Project: Jackson B 55

Collection Date: 11/1/2021 3:15:00 PM

Lab ID: 2111126-016

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	150	60		mg/Kg	20	11/4/2021 10:27:05 AM	63763
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/4/2021 5:01:32 PM	63743
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/4/2021 5:01:32 PM	63743
Surr: DNOP	96.4	70-130		%Rec	1	11/4/2021 5:01:32 PM	63743
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/5/2021 12:39:00 AM	63726
Surr: BFB	98.3	70-130		%Rec	1	11/5/2021 12:39:00 AM	63726
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.025		mg/Kg	1	11/5/2021 12:39:00 AM	63726
Toluene	ND	0.050		mg/Kg	1	11/5/2021 12:39:00 AM	63726
Ethylbenzene	ND	0.050		mg/Kg	1	11/5/2021 12:39:00 AM	63726
Xylenes, Total	ND	0.10		mg/Kg	1	11/5/2021 12:39:00 AM	63726
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	11/5/2021 12:39:00 AM	63726

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 interference		

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## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-17

Project: Jackson B 55

Collection Date: 11/1/2021 3:20:00 PM

Lab ID: 2111126-017

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	100	60		mg/Kg	20	11/4/2021 10:39:29 AM	63763
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/4/2021 5:25:44 PM	63743
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/4/2021 5:25:44 PM	63743
Surr: DNOP	107	70-130		%Rec	1	11/4/2021 5:25:44 PM	63743
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/5/2021 12:59:00 AM	63726
Surr: BFB	98.2	70-130		%Rec	1	11/5/2021 12:59:00 AM	63726
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.024		mg/Kg	1	11/5/2021 12:59:00 AM	63726
Toluene	ND	0.047		mg/Kg	1	11/5/2021 12:59:00 AM	63726
Ethylbenzene	ND	0.047		mg/Kg	1	11/5/2021 12:59:00 AM	63726
Xylenes, Total	ND	0.095		mg/Kg	1	11/5/2021 12:59:00 AM	63726
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	11/5/2021 12:59:00 AM	63726

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 interference		

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## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-18

Project: Jackson B 55

Collection Date: 11/1/2021 3:25:00 PM

Lab ID: 2111126-018

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	63	60		mg/Kg	20	11/4/2021 10:51:53 AM	63763
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/4/2021 5:50:06 PM	63743
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/4/2021 5:50:06 PM	63743
Surr: DNOP	76.2	70-130		%Rec	1	11/4/2021 5:50:06 PM	63743
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/5/2021 1:19:00 AM	63726
Surr: BFB	101	70-130		%Rec	1	11/5/2021 1:19:00 AM	63726
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.024		mg/Kg	1	11/5/2021 1:19:00 AM	63726
Toluene	ND	0.048		mg/Kg	1	11/5/2021 1:19:00 AM	63726
Ethylbenzene	ND	0.048		mg/Kg	1	11/5/2021 1:19:00 AM	63726
Xylenes, Total	ND	0.096		mg/Kg	1	11/5/2021 1:19:00 AM	63726
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	11/5/2021 1:19:00 AM	63726

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 interference		

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## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-19

Project: Jackson B 55

Collection Date: 11/1/2021 3:30:00 PM

Lab ID: 2111126-019

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	60		mg/Kg	20	11/4/2021 11:04:17 AM	63763
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/4/2021 6:14:17 PM	63743
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/4/2021 6:14:17 PM	63743
Surr: DNOP	105	70-130		%Rec	1	11/4/2021 6:14:17 PM	63743
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/5/2021 1:38:00 AM	63726
Surr: BFB	103	70-130		%Rec	1	11/5/2021 1:38:00 AM	63726
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.025		mg/Kg	1	11/5/2021 1:38:00 AM	63726
Toluene	ND	0.050		mg/Kg	1	11/5/2021 1:38:00 AM	63726
Ethylbenzene	ND	0.050		mg/Kg	1	11/5/2021 1:38:00 AM	63726
Xylenes, Total	ND	0.099		mg/Kg	1	11/5/2021 1:38:00 AM	63726
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	11/5/2021 1:38:00 AM	63726

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 interference		

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## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-20

Project: Jackson B 55

Collection Date: 11/1/2021 3:35:00 PM

Lab ID: 2111126-020

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	70	60		mg/Kg	20	11/4/2021 11:41:31 AM	63763
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/4/2021 6:38:46 PM	63743
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/4/2021 6:38:46 PM	63743
Surr: DNOP	97.8	70-130		%Rec	1	11/4/2021 6:38:46 PM	63743
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/5/2021 1:58:00 AM	63726
Surr: BFB	97.8	70-130		%Rec	1	11/5/2021 1:58:00 AM	63726
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.024		mg/Kg	1	11/5/2021 1:58:00 AM	63726
Toluene	ND	0.048		mg/Kg	1	11/5/2021 1:58:00 AM	63726
Ethylbenzene	ND	0.048		mg/Kg	1	11/5/2021 1:58:00 AM	63726
Xylenes, Total	ND	0.097		mg/Kg	1	11/5/2021 1:58:00 AM	63726
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	11/5/2021 1:58:00 AM	63726

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 interference		

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## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-21

Project: Jackson B 55

Collection Date: 11/1/2021 3:40:00 PM

Lab ID: 2111126-021

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	11/5/2021 2:04:31 PM	63784
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/5/2021 1:53:33 PM	63756
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/5/2021 1:53:33 PM	63756
Surr: DNOP	90.2	70-130		%Rec	1	11/5/2021 1:53:33 PM	63756
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/5/2021 2:18:00 AM	63726
Surr: BFB	99.6	70-130		%Rec	1	11/5/2021 2:18:00 AM	63726
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.025		mg/Kg	1	11/5/2021 2:18:00 AM	63726
Toluene	ND	0.049		mg/Kg	1	11/5/2021 2:18:00 AM	63726
Ethylbenzene	ND	0.049		mg/Kg	1	11/5/2021 2:18:00 AM	63726
Xylenes, Total	ND	0.098		mg/Kg	1	11/5/2021 2:18:00 AM	63726
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	11/5/2021 2:18:00 AM	63726

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 interference		

## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-22

Project: Jackson B 55

Collection Date: 11/1/2021 3:45:00 PM

Lab ID: 2111126-022

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	11/5/2021 3:06:33 PM	63784
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	11/5/2021 2:17:45 PM	63756
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	11/5/2021 2:17:45 PM	63756
Surr: DNOP	89.3	70-130		%Rec	1	11/5/2021 2:17:45 PM	63756
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/5/2021 2:37:00 AM	63726
Surr: BFB	102	70-130		%Rec	1	11/5/2021 2:37:00 AM	63726
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.024		mg/Kg	1	11/5/2021 2:37:00 AM	63726
Toluene	ND	0.048		mg/Kg	1	11/5/2021 2:37:00 AM	63726
Ethylbenzene	ND	0.048		mg/Kg	1	11/5/2021 2:37:00 AM	63726
Xylenes, Total	ND	0.095		mg/Kg	1	11/5/2021 2:37:00 AM	63726
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	11/5/2021 2:37:00 AM	63726

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 interference		

## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-23

Project: Jackson B 55

Collection Date: 11/1/2021 3:50:00 PM

Lab ID: 2111126-023

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	120	60		mg/Kg	20	11/5/2021 3:43:46 PM	63784
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	11/5/2021 2:42:01 PM	63756
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	11/5/2021 2:42:01 PM	63756
Surr: DNOP	85.8	70-130		%Rec	1	11/5/2021 2:42:01 PM	63756
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/5/2021 2:57:00 AM	63726
Surr: BFB	96.1	70-130		%Rec	1	11/5/2021 2:57:00 AM	63726
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.023		mg/Kg	1	11/5/2021 2:57:00 AM	63726
Toluene	ND	0.046		mg/Kg	1	11/5/2021 2:57:00 AM	63726
Ethylbenzene	ND	0.046		mg/Kg	1	11/5/2021 2:57:00 AM	63726
Xylenes, Total	ND	0.093		mg/Kg	1	11/5/2021 2:57:00 AM	63726
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	1	11/5/2021 2:57:00 AM	63726

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 interference		

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## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-24

Project: Jackson B 55

Collection Date: 11/1/2021 3:55:00 PM

Lab ID: 2111126-024

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	11/5/2021 3:56:10 PM	63784
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/5/2021 3:06:12 PM	63756
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/5/2021 3:06:12 PM	63756
Surr: DNOP	99.8	70-130		%Rec	1	11/5/2021 3:06:12 PM	63756
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/4/2021 8:53:46 PM	63739
Surr: BFB	99.4	70-130		%Rec	1	11/4/2021 8:53:46 PM	63739
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	11/4/2021 8:53:46 PM	63739
Toluene	ND	0.049		mg/Kg	1	11/4/2021 8:53:46 PM	63739
Ethylbenzene	ND	0.049		mg/Kg	1	11/4/2021 8:53:46 PM	63739
Xylenes, Total	ND	0.098		mg/Kg	1	11/4/2021 8:53:46 PM	63739
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	11/4/2021 8:53:46 PM	63739

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 interference		



## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-25

Project: Jackson B 55

Collection Date: 11/1/2021 4:00:00 PM

Lab ID: 2111126-025

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	11/5/2021 4:08:35 PM	63784
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/5/2021 3:30:37 PM	63756
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/5/2021 3:30:37 PM	63756
Surr: DNOP	86.4	70-130		%Rec	1	11/5/2021 3:30:37 PM	63756
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2021 10:03:56 PM	63739
Surr: BFB	100	70-130		%Rec	1	11/4/2021 10:03:56 PM	63739
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	11/4/2021 10:03:56 PM	63739
Toluene	ND	0.048		mg/Kg	1	11/4/2021 10:03:56 PM	63739
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2021 10:03:56 PM	63739
Xylenes, Total	ND	0.096		mg/Kg	1	11/4/2021 10:03:56 PM	63739
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/4/2021 10:03:56 PM	63739

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 interference		

## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-26

Project: Jackson B 55

Collection Date: 11/1/2021 4:05:00 PM

Lab ID: 2111126-026

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	11/5/2021 4:45:48 PM	63792
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/5/2021 3:54:55 PM	63756
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/5/2021 3:54:55 PM	63756
Surr: DNOP	81.1	70-130		%Rec	1	11/5/2021 3:54:55 PM	63756
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/4/2021 11:14:12 PM	63739
Surr: BFB	99.3	70-130		%Rec	1	11/4/2021 11:14:12 PM	63739
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	11/4/2021 11:14:12 PM	63739
Toluene	ND	0.047		mg/Kg	1	11/4/2021 11:14:12 PM	63739
Ethylbenzene	ND	0.047		mg/Kg	1	11/4/2021 11:14:12 PM	63739
Xylenes, Total	ND	0.094		mg/Kg	1	11/4/2021 11:14:12 PM	63739
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	11/4/2021 11:14:12 PM	63739

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 interference		

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## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-1

Project: Jackson B 55

Collection Date: 11/1/2021 4:10:00 PM

Lab ID: 2111126-027

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	320	59		mg/Kg	20	11/5/2021 5:47:50 PM	63792
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/5/2021 4:19:20 PM	63756
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/5/2021 4:19:20 PM	63756
Surr: DNOP	82.4	70-130		%Rec	1	11/5/2021 4:19:20 PM	63756
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/4/2021 11:37:38 PM	63739
Surr: BFB	100	70-130		%Rec	1	11/4/2021 11:37:38 PM	63739
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	11/4/2021 11:37:38 PM	63739
Toluene	ND	0.046		mg/Kg	1	11/4/2021 11:37:38 PM	63739
Ethylbenzene	ND	0.046		mg/Kg	1	11/4/2021 11:37:38 PM	63739
Xylenes, Total	ND	0.092		mg/Kg	1	11/4/2021 11:37:38 PM	63739
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/4/2021 11:37:38 PM	63739

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 interference		

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## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-2

Project: Jackson B 55

Collection Date: 11/1/2021 4:15:00 PM

Lab ID: 2111126-028

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	350	60		mg/Kg	20	11/5/2021 6:25:05 PM	63792
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	13	9.6		mg/Kg	1	11/5/2021 4:43:39 PM	63756
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/5/2021 4:43:39 PM	63756
Surr: DNOP	86.2	70-130		%Rec	1	11/5/2021 4:43:39 PM	63756
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/5/2021 12:01:04 AM	63739
Surr: BFB	99.1	70-130		%Rec	1	11/5/2021 12:01:04 AM	63739
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	11/5/2021 12:01:04 AM	63739
Toluene	ND	0.049		mg/Kg	1	11/5/2021 12:01:04 AM	63739
Ethylbenzene	ND	0.049		mg/Kg	1	11/5/2021 12:01:04 AM	63739
Xylenes, Total	ND	0.097		mg/Kg	1	11/5/2021 12:01:04 AM	63739
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	11/5/2021 12:01:04 AM	63739

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 interference		

## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-3

Project: Jackson B 55

Collection Date: 11/1/2021 4:20:00 PM

Lab ID: 2111126-029

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	87	60		mg/Kg	20	11/5/2021 6:37:29 PM	63792
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/5/2021 5:08:05 PM	63756
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/5/2021 5:08:05 PM	63756
Surr: DNOP	84.9	70-130		%Rec	1	11/5/2021 5:08:05 PM	63756
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/5/2021 12:24:27 AM	63739
Surr: BFB	99.3	70-130		%Rec	1	11/5/2021 12:24:27 AM	63739
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	11/5/2021 12:24:27 AM	63739
Toluene	ND	0.047		mg/Kg	1	11/5/2021 12:24:27 AM	63739
Ethylbenzene	ND	0.047		mg/Kg	1	11/5/2021 12:24:27 AM	63739
Xylenes, Total	ND	0.095		mg/Kg	1	11/5/2021 12:24:27 AM	63739
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	11/5/2021 12:24:27 AM	63739

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 interference		



## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-4

Project: Jackson B 55

Collection Date: 11/1/2021 4:25:00 PM

Lab ID: 2111126-030

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	180	60		mg/Kg	20	11/5/2021 6:49:53 PM	63792
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/5/2021 5:32:18 PM	63756
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/5/2021 5:32:18 PM	63756
Surr: DNOP	84.0	70-130		%Rec	1	11/5/2021 5:32:18 PM	63756
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/5/2021 12:47:56 AM	63739
Surr: BFB	99.1	70-130		%Rec	1	11/5/2021 12:47:56 AM	63739
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	11/5/2021 12:47:56 AM	63739
Toluene	ND	0.050		mg/Kg	1	11/5/2021 12:47:56 AM	63739
Ethylbenzene	ND	0.050		mg/Kg	1	11/5/2021 12:47:56 AM	63739
Xylenes, Total	ND	0.099		mg/Kg	1	11/5/2021 12:47:56 AM	63739
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	11/5/2021 12:47:56 AM	63739

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 interference		

## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-5

Project: Jackson B 55

Collection Date: 11/1/2021 4:30:00 PM

Lab ID: 2111126-031

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	ND	60		mg/Kg	20	11/5/2021 7:02:17 PM	63792
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	11/5/2021 5:56:36 PM	63756
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	11/5/2021 5:56:36 PM	63756
Surr: DNOP	82.7	70-130		%Rec	1	11/5/2021 5:56:36 PM	63756
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/5/2021 1:11:19 AM	63739
Surr: BFB	98.9	70-130		%Rec	1	11/5/2021 1:11:19 AM	63739
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	11/5/2021 1:11:19 AM	63739
Toluene	ND	0.046		mg/Kg	1	11/5/2021 1:11:19 AM	63739
Ethylbenzene	ND	0.046		mg/Kg	1	11/5/2021 1:11:19 AM	63739
Xylenes, Total	ND	0.092		mg/Kg	1	11/5/2021 1:11:19 AM	63739
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	11/5/2021 1:11:19 AM	63739

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 interference		

## Analytical Report

Lab Order 2111126

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: SW-6

Project: Jackson B 55

Collection Date: 11/1/2021 4:35:00 PM

Lab ID: 2111126-032

Matrix: SOIL

Received Date: 11/3/2021 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LRN</b>
Chloride	61	59		mg/Kg	20	11/5/2021 7:14:42 PM	63792
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/5/2021 6:20:54 PM	63756
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/5/2021 6:20:54 PM	63756
Surr: DNOP	85.5	70-130		%Rec	1	11/5/2021 6:20:54 PM	63756
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/5/2021 1:34:41 AM	63739
Surr: BFB	98.7	70-130		%Rec	1	11/5/2021 1:34:41 AM	63739
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	11/5/2021 1:34:41 AM	63739
Toluene	ND	0.048		mg/Kg	1	11/5/2021 1:34:41 AM	63739
Ethylbenzene	ND	0.048		mg/Kg	1	11/5/2021 1:34:41 AM	63739
Xylenes, Total	ND	0.096		mg/Kg	1	11/5/2021 1:34:41 AM	63739
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	11/5/2021 1:34:41 AM	63739

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 interference		

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

WO#: 2111126

11-Nov-21

**Client:** GHD Midland**Project:** Jackson B 55

Sample ID: <b>MB-63750</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63750</b>	RunNo: <b>82554</b>								
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/3/2021</b>	SeqNo: <b>2930779</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-63750</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63750</b>	RunNo: <b>82554</b>								
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/3/2021</b>	SeqNo: <b>2930780</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	91.6	90	110			

Sample ID: <b>MB-63763</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63763</b>	RunNo: <b>82612</b>								
Prep Date: <b>11/4/2021</b>	Analysis Date: <b>11/4/2021</b>	SeqNo: <b>2932209</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-63763</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63763</b>	RunNo: <b>82612</b>								
Prep Date: <b>11/4/2021</b>	Analysis Date: <b>11/4/2021</b>	SeqNo: <b>2932210</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	96.1	90	110			

Sample ID: <b>MB-63762</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63762</b>	RunNo: <b>82614</b>								
Prep Date: <b>11/4/2021</b>	Analysis Date: <b>11/4/2021</b>	SeqNo: <b>2932376</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-63762</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63762</b>	RunNo: <b>82614</b>								
Prep Date: <b>11/4/2021</b>	Analysis Date: <b>11/4/2021</b>	SeqNo: <b>2932377</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			

**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 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#: 2111126

11-Nov-21

**Client:** GHD Midland**Project:** Jackson B 55

Sample ID: <b>MB-63784</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63784</b>	RunNo: <b>82637</b>								
Prep Date: <b>11/5/2021</b>	Analysis Date: <b>11/5/2021</b>	SeqNo: <b>2933906</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-63784</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63784</b>	RunNo: <b>82637</b>								
Prep Date: <b>11/5/2021</b>	Analysis Date: <b>11/5/2021</b>	SeqNo: <b>2933907</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	93.0	90	110			

Sample ID: <b>MB-63792</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63792</b>	RunNo: <b>82637</b>								
Prep Date: <b>11/5/2021</b>	Analysis Date: <b>11/5/2021</b>	SeqNo: <b>2933936</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-63792</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63792</b>	RunNo: <b>82637</b>								
Prep Date: <b>11/5/2021</b>	Analysis Date: <b>11/5/2021</b>	SeqNo: <b>2933937</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 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#: 2111126

11-Nov-21

**Client:** GHD Midland**Project:** Jackson B 55

Sample ID: <b>LCS-63743</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>63743</b>		RunNo: <b>82578</b>							
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>		SeqNo: <b>2931839</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	101	68.9	135			
Surr: DNOP	5.0		5.000		101	70	130			

Sample ID: <b>MB-63743</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>63743</b>		RunNo: <b>82578</b>							
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>		SeqNo: <b>2931840</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	9.3		10.00		92.6	70	130			

Sample ID: <b>2111126-001AMS</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>BH-1</b>	Batch ID: <b>63743</b>		RunNo: <b>82578</b>							
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>		SeqNo: <b>2932241</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	49.75	0	101	39.3	155			
Surr: DNOP	5.0		4.975		100	70	130			

Sample ID: <b>2111126-001AMSD</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>BH-1</b>	Batch ID: <b>63743</b>		RunNo: <b>82578</b>							
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>		SeqNo: <b>2932242</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	9.9	49.55	0	102	39.3	155	0.181	23.4	
Surr: DNOP	4.8		4.955		97.7	70	130	0	0	

Sample ID: <b>2111126-021AMS</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>BH-21</b>	Batch ID: <b>63756</b>		RunNo: <b>82622</b>							
Prep Date: <b>11/4/2021</b>	Analysis Date: <b>11/5/2021</b>		SeqNo: <b>2934279</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.1	45.50	0	96.2	39.3	155			
Surr: DNOP	3.0		4.550		65.1	70	130			S

**Qualifiers:**

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

B Analyte detected in the associated Method Blank  
E 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#: 2111126

11-Nov-21

**Client:** GHD Midland**Project:** Jackson B 55

Sample ID: <b>2111126-021AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BH-21</b>	Batch ID: <b>63756</b>	RunNo: <b>82622</b>								
Prep Date: <b>11/4/2021</b>	Analysis Date: <b>11/5/2021</b>	SeqNo: <b>2934280</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	9.8	49.07	0	92.9	39.3	155	4.02	23.4	
Surr: DNOP	3.2		4.907		65.3	70	130	0	0	S

Sample ID: <b>LCS-63756</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63756</b>	RunNo: <b>82622</b>								
Prep Date: <b>11/4/2021</b>	Analysis Date: <b>11/5/2021</b>	SeqNo: <b>2934322</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	93.4	68.9	135			
Surr: DNOP	4.4		5.000		87.6	70	130			

Sample ID: <b>MB-63756</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63756</b>	RunNo: <b>82622</b>								
Prep Date: <b>11/4/2021</b>	Analysis Date: <b>11/5/2021</b>	SeqNo: <b>2934324</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	9.0		10.00		90.5	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 interference

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#: 2111126

11-Nov-21

**Client:** GHD Midland**Project:** Jackson B 55

Sample ID: <b>mb-63721</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63721</b>	RunNo: <b>82606</b>								
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>	SeqNo: <b>2931910</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		103	70	130			

Sample ID: <b>mb-63726</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63726</b>	RunNo: <b>82606</b>								
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>	SeqNo: <b>2931911</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		95.9	70	130			

Sample ID: <b>lcs-63721</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63721</b>	RunNo: <b>82606</b>								
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>	SeqNo: <b>2931912</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	5.0	25.00	0	113	78.6	131			
Surr: BFB	1200		1000		123	70	130			

Sample ID: <b>lcs-63726</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63726</b>	RunNo: <b>82606</b>								
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>	SeqNo: <b>2931913</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	106	78.6	131			
Surr: BFB	1100		1000		114	70	130			

Sample ID: <b>2111126-004ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH-4</b>	Batch ID: <b>63726</b>	RunNo: <b>82606</b>								
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>	SeqNo: <b>2931915</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	4.8	24.18	0	116	61.3	114			S
Surr: BFB	1100		967.1		115	70	130			

Sample ID: <b>2111126-004amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH-4</b>	Batch ID: <b>63726</b>	RunNo: <b>82606</b>								
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>	SeqNo: <b>2931917</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 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#: 2111126

11-Nov-21

**Client:** GHD Midland**Project:** Jackson B 55

Sample ID: <b>2111126-004amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH-4</b>	Batch ID: <b>63726</b>	RunNo: <b>82606</b>								
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>	SeqNo: <b>2931917</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	4.8	24.25	0	111	61.3	114	4.68	20	
Surr: BFB	1100		969.9		116	70	130	0	0	

Sample ID: <b>mb-63739</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63739</b>	RunNo: <b>82607</b>								
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>	SeqNo: <b>2932036</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		98.5	70	130			

Sample ID: <b>lcs-63739</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63739</b>	RunNo: <b>82607</b>								
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>	SeqNo: <b>2932037</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	97.0	78.6	131			
Surr: BFB	1100		1000		113	70	130			

Sample ID: <b>2111126-024ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH-24</b>	Batch ID: <b>63739</b>	RunNo: <b>82607</b>								
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>	SeqNo: <b>2932041</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	4.9	24.44	0	100	61.3	114			
Surr: BFB	1100		977.5		115	70	130			

Sample ID: <b>2111126-024amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH-24</b>	Batch ID: <b>63739</b>	RunNo: <b>82607</b>								
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>	SeqNo: <b>2932042</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	24.37	0	105	61.3	114	4.47	20	
Surr: BFB	1100		974.7		114	70	130	0	0	

Sample ID: <b>MB-63765</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63765</b>	RunNo: <b>82648</b>								
Prep Date: <b>11/4/2021</b>	Analysis Date: <b>11/6/2021</b>	SeqNo: <b>2933643</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 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#: 2111126

11-Nov-21

Client: GHD Midland

Project: Jackson B 55

Sample ID: <b>MB-63765</b>	SampType: <b>MBLK</b>				TestCode: <b>EPA Method 8015D: Gasoline Range</b>					
Client ID: <b>PBS</b>	Batch ID: <b>63765</b>				RunNo: <b>82648</b>					
Prep Date: <b>11/4/2021</b>	Analysis Date: <b>11/6/2021</b>				SeqNo: <b>2933643</b>	Units: <b>%Rec</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	960		1000		95.8	70	130			

Sample ID: <b>LCS-63765</b>	SampType: <b>LCS</b>				TestCode: <b>EPA Method 8015D: Gasoline Range</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>63765</b>				RunNo: <b>82648</b>					
Prep Date: <b>11/4/2021</b>	Analysis Date: <b>11/6/2021</b>				SeqNo: <b>2933644</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			

### 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 interference		

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

WO#: 2111126

11-Nov-21

**Client:** GHD Midland**Project:** Jackson B 55

Sample ID: <b>mb-63721</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63721</b>	RunNo: <b>82606</b>								
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>	SeqNo: <b>2931958</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		108	70	130			

Sample ID: <b>mb-63726</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63726</b>	RunNo: <b>82606</b>								
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>	SeqNo: <b>2931959</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-63721</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63721</b>	RunNo: <b>82606</b>								
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>	SeqNo: <b>2931960</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	92.4	80	120			
Toluene	0.94	0.050	1.000	0	93.6	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.2	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	70	130			

Sample ID: <b>lcs-63726</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63726</b>	RunNo: <b>82606</b>								
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>	SeqNo: <b>2931961</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	92.9	80	120			
Toluene	0.98	0.050	1.000	0	97.6	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.0	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.4	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: 2111126

11-Nov-21

**Client:** GHD Midland**Project:** Jackson B 55

Sample ID: <b>2111126-005ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BH-5</b>	Batch ID: <b>63726</b>	RunNo: <b>82606</b>								
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>	SeqNo: <b>2931963</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	0.9930	0	105	80	120			
Toluene	1.1	0.050	0.9930	0	107	80	120			
Ethylbenzene	1.1	0.050	0.9930	0	110	80	120			
Xylenes, Total	3.3	0.099	2.979	0	111	80	120			
Surr: 4-Bromofluorobenzene	1.1		0.9930		107	70	130			

Sample ID: <b>2111126-005amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BH-5</b>	Batch ID: <b>63726</b>	RunNo: <b>82606</b>								
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>	SeqNo: <b>2931965</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	0.9960	0	104	80	120	0.987	20	
Toluene	1.1	0.050	0.9960	0	107	80	120	0.353	20	
Ethylbenzene	1.1	0.050	0.9960	0	111	80	120	1.50	20	
Xylenes, Total	3.4	0.10	2.988	0	113	80	120	1.84	20	
Surr: 4-Bromofluorobenzene	1.0		0.9960		105	70	130	0	0	

Sample ID: <b>mb-63739</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63739</b>	RunNo: <b>82607</b>								
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>	SeqNo: <b>2932112</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		99.8	70	130			

Sample ID: <b>LCS-63739</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63739</b>	RunNo: <b>82607</b>								
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>	SeqNo: <b>2932114</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.025	1.000	0	81.6	80	120			
Toluene	0.85	0.050	1.000	0	85.4	80	120			
Ethylbenzene	0.87	0.050	1.000	0	86.8	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.9	80	120			
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 interference

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#: 2111126

11-Nov-21

**Client:** GHD Midland**Project:** Jackson B 55

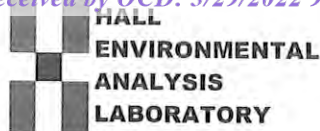
Sample ID: <b>2111126-025ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>BH-25</b>	Batch ID: <b>63739</b>		RunNo: <b>82607</b>							
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>		SeqNo: <b>2932119</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.024	0.9625	0	86.1	80	120			
Toluene	0.86	0.048	0.9625	0	89.8	80	120			
Ethylbenzene	0.89	0.048	0.9625	0	92.8	80	120			
Xylenes, Total	2.7	0.096	2.887	0	93.0	80	120			
Surr: 4-Bromofluorobenzene	0.98		0.9625		102	70	130			

Sample ID: <b>2111126-025amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>BH-25</b>	Batch ID: <b>63739</b>		RunNo: <b>82607</b>							
Prep Date: <b>11/3/2021</b>	Analysis Date: <b>11/4/2021</b>		SeqNo: <b>2932121</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.024	0.9662	0	83.6	80	120	2.61	20	
Toluene	0.85	0.048	0.9662	0	87.8	80	120	1.83	20	
Ethylbenzene	0.87	0.048	0.9662	0	90.4	80	120	2.26	20	
Xylenes, Total	2.6	0.097	2.899	0	90.5	80	120	2.31	20	
Surr: 4-Bromofluorobenzene	0.99		0.9662		102	70	130	0	0	

Sample ID: <b>MB-63765</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>63765</b>		RunNo: <b>82648</b>							
Prep Date: <b>11/4/2021</b>	Analysis Date: <b>11/6/2021</b>		SeqNo: <b>2933696</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.97		1.000		97.5	70	130			

**Qualifiers:**

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

Work Order Number: 2111126

RcptNo: 1

Received By: Cheyenne Cason 11/3/2021 7:35:00 AM

Completed By: Desiree Dominguez 11/3/2021 8:16:05 AM

Reviewed By: DAD 11/03/21

### Chain of Custody

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

### Log In

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

# of preserved  
bottles checked  
for pH:

(<2 or >12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: JP 11-3-21  
JA 11/3/21

### Special Handling (if applicable)

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

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_  
By Whom: \_\_\_\_\_ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person  
Regarding: \_\_\_\_\_  
Client Instructions: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good				



## Chain-of-Custody Record

Client: GHD

Mailing Address:

324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

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

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush 5-day

Project Name:

Jackson B # 55

Project #:

11226309

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including CF): 2.4 - 0.2 = 2.4

Container Type and #

Preservative Type

HEAL No. 211126

Date Time Matrix Sample Name

11/21 1400

S

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## Chain-of-Custody Record

Client: GHD

Mailing Address:

324 W. Main St. Suite 108, Artesia NM 88210

Phone #: (505)377-4218

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

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush 5-8y

Project Name:

Jackson B # 55

Project #:

11226309

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including GF): 2.4 - 0 = 2.4

Container Type and #

Preservative Type

HEAL No.

211126-013-014-015-016-017-018-019-020-021-022-023-024-025-026-027-028-029-030-031-032-033-034-035-036-037-038-039-040-041-042-043-044-045-046-047-048-049-050-051-052-053-054-055-056-057-058-059-060-061-062-063-064-065-066-067-068-069-070-071-072-073-074-075-076-077-078-079-080-081-082-083-084-085-086-087-088-089-090-091-092-093-094-095-096-097-098-099-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-







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)

November 11, 2021

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

RE: Jackson B 55

OrderNo.: 2111224

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 11/4/2021 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 light blue horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2111224

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: NBH-1

Project: Jackson B 55

Collection Date: 11/2/2021 7:45:00 AM

Lab ID: 2111224-001

Matrix: SOIL

Received Date: 11/4/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	73	60		mg/Kg	20	11/6/2021 3:36:31 PM	63796
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/8/2021 2:17:41 PM	63789
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/8/2021 2:17:41 PM	63789
Surr: DNOP	98.4	70-130		%Rec	1	11/8/2021 2:17:41 PM	63789
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/6/2021 4:36:32 AM	63765
Surr: BFB	97.9	70-130		%Rec	1	11/6/2021 4:36:32 AM	63765
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	11/6/2021 4:36:32 AM	63765
Toluene	ND	0.050		mg/Kg	1	11/6/2021 4:36:32 AM	63765
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2021 4:36:32 AM	63765
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2021 4:36:32 AM	63765
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	11/6/2021 4:36:32 AM	63765

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 interference		

## Analytical Report

Lab Order 2111224

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: NSW-1

Project: Jackson B 55

Collection Date: 11/2/2021 8:00:00 AM

Lab ID: 2111224-002

Matrix: SOIL

Received Date: 11/4/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/6/2021 3:48:54 PM	63796
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/8/2021 2:31:11 PM	63789
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/8/2021 2:31:11 PM	63789
Surr: DNOP	88.2	70-130		%Rec	1	11/8/2021 2:31:11 PM	63789
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/6/2021 5:46:46 AM	63765
Surr: BFB	100	70-130		%Rec	1	11/6/2021 5:46:46 AM	63765
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/6/2021 5:46:46 AM	63765
Toluene	ND	0.048		mg/Kg	1	11/6/2021 5:46:46 AM	63765
Ethylbenzene	ND	0.048		mg/Kg	1	11/6/2021 5:46:46 AM	63765
Xylenes, Total	ND	0.096		mg/Kg	1	11/6/2021 5:46:46 AM	63765
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/6/2021 5:46:46 AM	63765

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 interference		

Page 2 of 7



## Analytical Report

Lab Order 2111224

Date Reported: 11/11/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: NSW-2

Project: Jackson B 55

Collection Date: 11/2/2021 8:15:00 AM

Lab ID: 2111224-003

Matrix: SOIL

Received Date: 11/4/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	ND	60		mg/Kg	20	11/6/2021 4:01:15 PM	63796
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/8/2021 2:44:51 PM	63789
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/8/2021 2:44:51 PM	63789
Surr: DNOP	90.1	70-130		%Rec	1	11/8/2021 2:44:51 PM	63789
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/6/2021 6:57:00 AM	63765
Surr: BFB	100	70-130		%Rec	1	11/6/2021 6:57:00 AM	63765
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	11/6/2021 6:57:00 AM	63765
Toluene	ND	0.050		mg/Kg	1	11/6/2021 6:57:00 AM	63765
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2021 6:57:00 AM	63765
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2021 6:57:00 AM	63765
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	11/6/2021 6:57:00 AM	63765

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 interference		

Page 3 of 7

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

WO#: 2111224

11-Nov-21

**Client:** GHD Midland**Project:** Jackson B 55

Sample ID: <b>MB-63796</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63796</b>	RunNo: <b>82658</b>								
Prep Date: <b>11/5/2021</b>	Analysis Date: <b>11/6/2021</b>	SeqNo: <b>2934243</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-63796</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63796</b>	RunNo: <b>82658</b>								
Prep Date: <b>11/5/2021</b>	Analysis Date: <b>11/6/2021</b>	SeqNo: <b>2934244</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	93.0	90	110			

**Qualifiers:**

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

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#: 2111224

11-Nov-21

**Client:** GHD Midland**Project:** Jackson B 55

Sample ID: <b>MB-63789</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>63789</b>		RunNo: <b>82690</b>							
Prep Date: <b>11/5/2021</b>	Analysis Date: <b>11/8/2021</b>		SeqNo: <b>2936051</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	8.8		10.00		88.4	70	130			

Sample ID: <b>LCS-63789</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>63789</b>		RunNo: <b>82690</b>							
Prep Date: <b>11/5/2021</b>	Analysis Date: <b>11/8/2021</b>		SeqNo: <b>2936052</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	95.7	68.9	135			
Surr: DNOP	4.6		5.000		91.7	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 interference

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#: 2111224

11-Nov-21

**Client:** GHD Midland**Project:** Jackson B 55

Sample ID: <b>MB-63765</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63765</b>	RunNo: <b>82648</b>								
Prep Date: <b>11/4/2021</b>	Analysis Date: <b>11/6/2021</b>	SeqNo: <b>2933643</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		95.8	70	130			

Sample ID: <b>LCS-63765</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63765</b>	RunNo: <b>82648</b>								
Prep Date: <b>11/4/2021</b>	Analysis Date: <b>11/6/2021</b>	SeqNo: <b>2933644</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.9	78.6	131			
Surr: BFB	1100		1000		109	70	130			

Sample ID: <b>2111224-001ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>NBH-1</b>	Batch ID: <b>63765</b>	RunNo: <b>82648</b>								
Prep Date: <b>11/4/2021</b>	Analysis Date: <b>11/6/2021</b>	SeqNo: <b>2933646</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	24.98	0	96.1	61.3	114			
Surr: BFB	1100		999.0		113	70	130			

Sample ID: <b>2111224-001amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>NBH-1</b>	Batch ID: <b>63765</b>	RunNo: <b>82648</b>								
Prep Date: <b>11/4/2021</b>	Analysis Date: <b>11/6/2021</b>	SeqNo: <b>2933647</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	24.95	0	93.2	61.3	114	3.14	20	
Surr: BFB	1100		998.0		111	70	130	0	0	

Sample ID: <b>mb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>G82709</b>	RunNo: <b>82709</b>								
Prep Date:	Analysis Date: <b>11/9/2021</b>	SeqNo: <b>2936419</b>			Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	980		1000		97.9	70	130			

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>G82709</b>	RunNo: <b>82709</b>								
Prep Date:	Analysis Date: <b>11/9/2021</b>	SeqNo: <b>2936420</b>			Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		112	70	130			

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: 2111224

11-Nov-21

**Client:** GHD Midland**Project:** Jackson B 55

Sample ID: <b>MB-63765</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>63765</b>	RunNo: <b>82648</b>								
Prep Date: <b>11/4/2021</b>	Analysis Date: <b>11/6/2021</b>	SeqNo: <b>2933696</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	0.97		1.000		97.5	70	130			

Sample ID: <b>lcs-63765</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>63765</b>	RunNo: <b>82709</b>								
Prep Date: <b>11/4/2021</b>	Analysis Date: <b>11/9/2021</b>	SeqNo: <b>2936451</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.5	80	120			
Toluene	0.93	0.050	1.000	0	93.0	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: <b>2111224-002ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>NSW-1</b>	Batch ID: <b>63765</b>	RunNo: <b>82709</b>								
Prep Date: <b>11/4/2021</b>	Analysis Date: <b>11/9/2021</b>	SeqNo: <b>2936452</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.70	0.024	0.9615	0	72.5	80	120			S
Toluene	0.78	0.048	0.9615	0	81.1	80	120			
Ethylbenzene	0.81	0.048	0.9615	0	84.4	80	120			
Xylenes, Total	2.4	0.096	2.885	0	83.9	80	120			
Surr: 4-Bromofluorobenzene	0.98		0.9615		102	70	130			

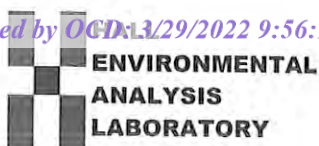
Sample ID: <b>2111224-002amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>NSW-1</b>	Batch ID: <b>63765</b>	RunNo: <b>82709</b>								
Prep Date: <b>11/4/2021</b>	Analysis Date: <b>11/9/2021</b>	SeqNo: <b>2936453</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.72	0.024	0.9606	0	74.6	80	120	2.81	20	S
Toluene	0.76	0.048	0.9606	0	78.9	80	120	2.87	20	S
Ethylbenzene	0.79	0.048	0.9606	0	81.8	80	120	3.27	20	
Xylenes, Total	2.4	0.096	2.882	0	81.7	80	120	2.79	20	
Surr: 4-Bromofluorobenzene	0.96		0.9606		99.5	70	130	0	0	

**Qualifiers:**

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

B Analyte detected in the associated Method Blank  
E 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: 2111224

RcptNo: 1

Received By: Cheyenne Cason 11/4/2021 7:44:00 AM

Completed By: Sean Livingston 11/4/2021 8:30:43 AM

Reviewed By: *Che* 11/4/21

*Che*  
*Sean Livingston*

Chain of Custody

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

Log In

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

# of preserved  
bottles checked  
for pH:

( $<2$  or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: *TML 11/4/21*

Special Handling (if applicable)

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

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good				
2	0.1	Good				





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)

November 29, 2021

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

RE: Jackson B 55

OrderNo.: 2111926

Dear Becky Haskell:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/18/2021 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 horizontal line.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109



## Analytical Report

Lab Order 2111926

Date Reported: 11/29/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: BH-11A

Project: Jackson B 55

Collection Date: 11/16/2021 10:45:00 AM

Lab ID: 2111926-001

Matrix: SOIL

Received Date: 11/18/2021 8:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	510	60		mg/Kg	20	11/23/2021 10:26:14 AM	64122
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/22/2021 12:22:39 PM	64083
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/22/2021 12:22:39 PM	64083
Surr: DNOP	98.7	70-130		%Rec	1	11/22/2021 12:22:39 PM	64083
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/22/2021 1:46:53 PM	64057
Surr: BFB	101	70-130		%Rec	1	11/22/2021 1:46:53 PM	64057
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/22/2021 1:46:53 PM	64057
Toluene	ND	0.048		mg/Kg	1	11/22/2021 1:46:53 PM	64057
Ethylbenzene	ND	0.048		mg/Kg	1	11/22/2021 1:46:53 PM	64057
Xylenes, Total	ND	0.095		mg/Kg	1	11/22/2021 1:46:53 PM	64057
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	11/22/2021 1:46:53 PM	64057

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 interference		

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

WO#: 2111926

29-Nov-21

**Client:** GHD Midland**Project:** Jackson B 55

Sample ID: <b>MB-64122</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>64122</b>	RunNo: <b>83084</b>								
Prep Date: <b>11/23/2021</b>	Analysis Date: <b>11/23/2021</b>	SeqNo: <b>2951448</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-64122</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>64122</b>	RunNo: <b>83084</b>								
Prep Date: <b>11/23/2021</b>	Analysis Date: <b>11/23/2021</b>	SeqNo: <b>2951449</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	90.2	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 Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

Page 2 of 5



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

WO#: 2111926

29-Nov-21

**Client:** GHD Midland**Project:** Jackson B 55

Sample ID: <b>LCS-64106</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>64106</b>		RunNo: <b>83036</b>							
Prep Date: <b>11/22/2021</b>	Analysis Date: <b>11/22/2021</b>		SeqNo: <b>2950330</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		5.000		77.4	70	130			

Sample ID: <b>MB-64106</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>64106</b>		RunNo: <b>83036</b>							
Prep Date: <b>11/22/2021</b>	Analysis Date: <b>11/22/2021</b>		SeqNo: <b>2950331</b>		Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.6		10.00		86.2	70	130			

Sample ID: <b>2111926-001AMS</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>BH-11A</b>	Batch ID: <b>64083</b>		RunNo: <b>83036</b>							
Prep Date: <b>11/22/2021</b>	Analysis Date: <b>11/22/2021</b>		SeqNo: <b>2951293</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.9	49.36	0	89.2	39.3	155			
Surr: DNOP	4.6		4.936		93.5	70	130			

Sample ID: <b>2111926-001AMSD</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>BH-11A</b>	Batch ID: <b>64083</b>		RunNo: <b>83036</b>							
Prep Date: <b>11/22/2021</b>	Analysis Date: <b>11/22/2021</b>		SeqNo: <b>2951294</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.7	48.40	0	87.5	39.3	155	3.88	23.4	
Surr: DNOP	4.2		4.840		87.2	70	130	0	0	

**Qualifiers:**

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

B Analyte detected in the associated Method Blank  
E 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#: 2111926

29-Nov-21

**Client:** GHD Midland**Project:** Jackson B 55

Sample ID: <b>mb-64057</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>64057</b>	RunNo: <b>83018</b>								
Prep Date: <b>11/19/2021</b>	Analysis Date: <b>11/22/2021</b>	SeqNo: <b>2949226</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		99.9	70	130			

Sample ID: <b>lcs-64057</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>64057</b>	RunNo: <b>83018</b>								
Prep Date: <b>11/19/2021</b>	Analysis Date: <b>11/22/2021</b>	SeqNo: <b>2949229</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	1100		1000		113	70	130			

Sample ID: <b>2111926-001ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH-11A</b>	Batch ID: <b>64057</b>	RunNo: <b>83018</b>								
Prep Date: <b>11/19/2021</b>	Analysis Date: <b>11/22/2021</b>	SeqNo: <b>2949233</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	24.93	0	87.4	61.3	114			
Surr: BFB	1100		997.0		110	70	130			

Sample ID: <b>2111926-001amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>BH-11A</b>	Batch ID: <b>64057</b>	RunNo: <b>83018</b>								
Prep Date: <b>11/19/2021</b>	Analysis Date: <b>11/22/2021</b>	SeqNo: <b>2949234</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	4.8	24.18	0	98.8	61.3	114	9.17	20	
Surr: BFB	1100		967.1		116	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 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#: 2111926

29-Nov-21

**Client:** GHD Midland**Project:** Jackson B 55

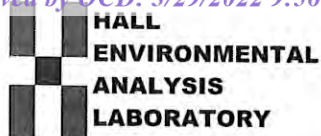
Sample ID: <b>mb-64057</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>64057</b>	RunNo: <b>83018</b>								
Prep Date: <b>11/19/2021</b>	Analysis Date: <b>11/22/2021</b>	SeqNo: <b>2949317</b>	Units: <b>mg/Kg</b>							
Analyte	Result	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-64057</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>64057</b>	RunNo: <b>83018</b>								
Prep Date: <b>11/19/2021</b>	Analysis Date: <b>11/22/2021</b>	SeqNo: <b>2949318</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	0.93	0.050	1.000	0	93.3	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

**Qualifiers:**

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

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



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Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2111926

RcptNo: 1

Received By: Cheyenne Cason

11/18/2021 8:45:00 AM

*Chad*

Completed By: Tracy Casarrubias

11/18/2021 10:52:49 AM

Reviewed By: *See 11/18/21*

### Chain of Custody

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

### Log In

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

# of preserved  
bottles checked  
for pH:

( $<2$  or  $>12$  unless noted)

Adjusted?

Checked by: *WPG 11/18/21*

### Special Handling (if applicable)

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

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good	Yes			



# Chain-of-Custody Record

Client: GHD

Mailing Address:

324 W. Main St. Suite 108, Artesia NIM 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 5-8y

Project Name:

Jackson B #55

Project #:

11223609

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 0.9 - 0 = 0.9

Container Type and #

Preservative Type

HEAL No.

2111926

001

Date Time Matrix Sample Name

11/16/21 1445 S BJA-11A

Date:

Time:

Relinquished by:

Received by:

Date

Time

Date:

Time:

Relinquished by:

Received by:

Date

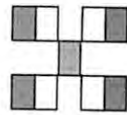
Time

CMC Carrier 11/18/21 0845

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

Direct Bill to EOG Chase Settle

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



**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

8081 Pesticides/8082 PCB's  
TPH:8015D(GRO / DRO / MRO)  
BTEX / MTBE / TMB's (802T)  
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)

Alcoride MHL 300



## Appendix D

# Approved Form C-138 and Waste Manifests

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

Form C-138  
Revised August 1, 2011

\*Surface Waste Management Facility Operator  
and Generator shall maintain and make this  
documentation available for Division inspection.

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. <b>Generator Name and Address:</b> EOG Resources, Inc. 104 South Fourth Street, Artesia, NM 88210
2. <b>Originating Site:</b> Jackson B 55
3. <b>Location of Material (Street Address, City, State or ULSTR):</b> Section 12-T17S-R30E, Eddy County, NM
4. <b>Source and Description of Waste:</b> Soil impacted by produced water and oil

EOG Resources, Inc. authorizes Lea Land to complete the required testing and sign the Generator Waste Testing Certificate.

Estimated Volume 15 yd<sup>3</sup> / bbls Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ yd<sup>3</sup> / bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**  
I, Tina Huerta Tina Huerta, representative or authorized agent for EOG Resources, Inc do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. Operator Use Only: Waste Acceptance Frequency ☒ Monthly ☐ Weekly ☐ Per Load

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

**GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS**  
I, \_\_\_\_\_, representative for \_\_\_\_\_ do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. **Transporter:**  
Standard Safety and Supply

### OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Lea Land Permit #WM-1-035

Address of Facility: MM64, US Highway 62/180 East, Carlsbad, NM 88220

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☐ Landfarm ☒ Landfill ☐ Other

### Waste Acceptance Status:

☒ **APPROVED**

☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Shelly Denton

TITLE: Manager DATE: 11-11-21

SIGNATURE: Shelly Denton  
Surface Waste Management Facility Authorized Agent

TELEPHONE NO.: 405-236-4257



<b>LEA LAND DISPOSAL SITE NEW MEXICO</b> <small>MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048</small>														
<b>LEA LAND, LLC</b> <small>1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257</small>														
<b>NON-HAZARDOUS WASTE MANIFEST</b>					NO <b>147761</b>		1. PAGE <u>  </u> OF <u>  </u>		2. TRAILER NO. <b>20</b>					
<b>G</b>	3. COMPANY NAME <b>E.O.G. Resources</b>			4. ADDRESS <b>105 South 4th St.</b>			5. PICK-UP DATE <b>11/2/2021</b>							
	PHONE NO. <b>(575) 748-1471</b>			CITY <b>Artesia</b>		STATE <b>NM</b>		ZIP <b>88210</b>		6. TNRCC I.D. NO.				
<b>E</b>	7. NAME OR DESCRIPTION OF WASTE SHIPPED:						8. CONTAINERS No. Type		9. TOTAL QUANTITY		10. UNIT Wt/Vol.		11. TEXAS WASTE ID #	
	<b>a. Non-Regulated, Non Hazardous Waste</b>						<b>1 CM</b>							
	<b>b.</b>													
	<b>c.</b>													
<b>R</b>	<b>d. WT: 33680 34520</b>													
	12. COMMENTS OR SPECIAL INSTRUCTIONS: <b>JACKSON B 55</b>						13. WASTE PROFILE NO. <b>TP 41200</b>							
<b>A</b>	14. <b>IN CASE OF EMERGENCY OR SPILL, CONTACT</b>													
	NAME <b>JOE ONTIVEROS</b>				PHONE NO <b>575-887-4048</b>				24-HOUR EMERGENCY NO.					
<b>O</b>	15. <b>GENERATOR'S CERTIFICATION:</b> I Herby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC													
	16. PRINTED/TYPED NAME <b>CO. MAN: TINA HUERTA</b>							SIGNATURE <b>DATE</b>						
<b>T</b>	16. <b>TRANSPORTER (1)</b>							17. <b>TRANSPORTER (2)</b>						
	NAME: <b>STANDARD SAFETY &amp; SUPPLY</b>							NAME:						
	TEXAS I.D. NO.							TEXAS I.D. NO.						
	IN CASE OF EMERGENCY CONTACT: <b>LUIS GALVADON</b>							IN CASE OF EMERGENCY CONTACT:						
<b>R</b>	EMERGENCY PHONE: <b>(432) 741-2509</b>							EMERGENCY PHONE:						
	18. <b>TRANSPORTER (1):</b> Acknowledgment of receipt of material													
	19. <b>TRANSPORTER (2):</b> Acknowledgment of receipt of material													
	PRINTED/TYPED NAME <b>Fernando Olivas</b>							PRINTED/TYPED NAME						
<b>S</b>	SIGNATURE <b>X Fernando O</b> DATE <b>11/2/2021</b>							SIGNATURE DATE						
<b>D</b>	Lea Land, LLC				ADDRESS: <b>Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM</b>				PHONE: <b>575-887-4048</b>					
	PERMIT NO. <b>WM-01-035 - New Mexico</b>				20. COMMENTS									
<b>I</b>	21. <b>DISPOSAL FACILITY'S CERTIFICATION:</b> I Herby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.													
	AUTHORIZED SIGNATURE <b>Santos</b>							CELL NO. <b>Monzalez</b>			DATE <b>11/2/2021</b>		TIME <b>9:15</b>	

GENERATOR: COPIES 1 &amp; 6

DISPOSAL SITE: COPIES 2 &amp; 3

TRANSPORTERS: COPIES 4 &amp; 5

COPY 1



# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

*Bonanda*

### NON-HAZARDOUS WASTE MANIFEST

NO 147763

1. PAGE \_\_\_ OF \_\_\_

2. TRAILER NO. *03*

G E N E R A T O R	3. COMPANY NAME <b>E.O.G. Resources</b>		4. ADDRESS <b>105 South 4th St.</b>		5. PICK-UP DATE <b>11/2/2021</b>	
	PHONE NO. <b>(575) 748-1471</b>		CITY <b>Artesia</b>	STATE <b>NM</b>	ZIP <b>88210</b>	6. TNRCC I.D. NO.
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:		8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	a. <b>Non-Regulated, Non Hazardous Waste</b>		<b>1</b> <b>CM</b>			
R E C E I V E R	b.					
	c.					
	d. WT: <b>34,720 36,400</b>					
	12. COMMENTS OR SPECIAL INSTRUCTIONS: <b>JACKSON B 55</b>		13. WASTE PROFILE NO.			
T R A N S P O R T E R S	14. IN CASE OF EMERGENCY OR SPILL, CONTACT					24-HOUR EMERGENCY NO.
	NAME <b>JOE ONTIVEROS</b>		PHONE NO. <b>575-887-4048</b>			
	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
	PRINTED/TYPED NAME <b>CO. MAN: TINA HUERTA</b>		SIGNATURE			
D I S P O S I T O R Y	16. TRANSPORTER (1)		17. TRANSPORTER (2)			
	NAME: <b>STANDARD SAFETY &amp; SUPPLY</b>		NAME:			
	TEXAS I.D. NO.		TEXAS I.D. NO.			
	IN CASE OF EMERGENCY CONTACT: <b>LUIS GALVADON</b>		IN CASE OF EMERGENCY CONTACT:			
EMERGENCY PHONE: <b>(432) 741-2509</b>		EMERGENCY PHONE:				
18. TRANSPORTER (1): Acknowledgment of receipt of material		19. TRANSPORTER (2): Acknowledgment of receipt of material				
PRINTED/TYPED NAME <i>Crucel Bonanda</i>		PRINTED/TYPED NAME				
SIGNATURE <i>Crucel Bonanda</i> DATE <b>11/2/2021</b>		SIGNATURE				
Lea Land, LLC		ADDRESS: <b>Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM</b>				
PERMIT NO. <b>WM-01-035 - New Mexico</b>		20. COMMENTS				
21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.		CELL NO.		DATE <b>11/2/2021</b>		
AUTHORIZED SIGNATURE <i>Santos</i>		AUTHORIZED SIGNATURE <i>Bonanda</i>		TIME <b>9:25</b>		

DISPOSAL SITE: COPIES 2 & 3

COPY 1



## LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Borunda

## NON-HAZARDOUS WASTE MANIFEST

NO 147795

1. PAGE \_\_\_ OF \_\_\_

2. TRAILER NO.

03

G E N E R A T O R	3. COMPANY NAME E.O.G. Resources	4. ADDRESS 105 South 4th St.	5. PICK-UP DATE 11/3/2021
	PHONE NO. (575) 748-1471	CITY Artesia	STATE NM
		ZIP 88210	6. TNRCC I.D. NO.
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No. Type	9. TOTAL QUANTITY
	a. Non-Regulated, Non Hazardous Waste	1 CM	
	b.		
	c.		
	d. WT: 38,500 36,260		
	12. COMMENTS OR SPECIAL INSTRUCTIONS: JACKSON B 55	13. WASTE PROFILE NO. 1c 74760	
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
	NAME JOE ONTIVEROS	PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.
	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC		
	PRINTED/TYPED NAME CO. MAN: TINA HUERTA	SIGNATURE	DATE
T R A N S P O R T E R S	16. TRANSPORTER (1) NAME: STANDARD SAFETY & SUPPLY TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: LUIS GALVADON (432) 741-2509 EMERGENCY PHONE:	17. TRANSPORTER (2) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:	
	18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material	
	PRINTED/TYPED NAME: Encl Borunda	PRINTED/TYPED NAME	
	SIGNATURE: Encl Borunda DATE: 11/3/2021	SIGNATURE DATE	
D I S P O S I T A R Y	Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS	
	21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.		
	AUTHORIZED SIGNATURE Santos Gonzalez	CELL NO.	DATE 11/3/2021
			TIME 8:50

GENERATOR: COPIES 1 &amp; 6

DISPOSAL SITE: COPIES 2 &amp; 3

TRANSPORTERS: COPIES 4 &amp; 5

COPY 1

COPY 2



# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

STG

### NON-HAZARDOUS WASTE MANIFEST

NO **147796**

1. PAGE    OF   

2. TRAILER NO. **02**

G E N E R A T O R	3. COMPANY NAME <b>E.O.G. Resources</b>	4. ADDRESS <b>105 South 4th St.</b>	5. PICK-UP DATE <b>11/3/2021</b>
	PHONE NO. <b>(575) 748-1471</b>	CITY <b>Artesia</b> STATE <b>NM</b> ZIP <b>88210</b>	6. TNRCC I.D. NO.

N E R A T O R	7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
	a. <b>Non-Regulated, Non Hazardous Waste</b>	<b>1 CM</b>			
	b.				
	c.				

A T R A N S P O R T E R S	dWT: <b>37940 38540</b>	12. COMMENTS OR SPECIAL INSTRUCTIONS: <b>JACKSON B 55</b>	13. WASTE PROFILE NO. <b>TC 76480</b>
---	-------------------------	--	--

T R A N S P O R T E R S	14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
	NAME <b>JOE ONTIVEROS</b>	PHONE NO. <b>575-887-4048</b>	24-HOUR EMERGENCY NO.

15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

R E C E I V E R	PRINTED/TYPED NAME <b>CO. MAN: TINA HUERTA</b>	SIGNATURE	DATE
--------------------------------------	---	-----------	------

T R A N S P O R T E R S	16. TRANSPORTER (1)	17. TRANSPORTER (2)
	NAME: <b>STANDARD SAFETY &amp; SUPPLY</b>	NAME:
	TEXAS I.D. NO.	TEXAS I.D. NO.
	IN CASE OF EMERGENCY CONTACT: <b>LUIS GALVADON</b>	IN CASE OF EMERGENCY CONTACT:

T R A N S P O R T E R S	18. TRANSPORTER (1): Acknowledgment of receipt of material	19. TRANSPORTER (2): Acknowledgment of receipt of material
	PRINTED/TYPED NAME: <b>Eduardo Salazar</b>	PRINTED/TYPED NAME: _____

D I S P O S I T Y	Lea Land, LLC	ADDRESS: <b>Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM</b>	PHONE: <b>575-887-4048</b>
---	---------------	---	-------------------------------

D I S P O S I T Y	PERMIT NO. <b>WM-01-035 - New Mexico</b>	20. COMMENTS
---	---	--------------

21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

D I S P O S I T Y	AUTHORIZED SIGNATURE <b>[Signature]</b>	CELL NO.	DATE <b>11/3/2021</b>	TIME <b>8:55</b>
---	--	----------	--------------------------	---------------------

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1



## LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Fonsaca

## NON-HAZARDOUS WASTE MANIFEST

NO 147797

1. PAGE \_\_\_ OF \_\_\_

2. TRAILER NO. 9964

G E N E R A T O R	3. COMPANY NAME E.O.G. Resources	4. ADDRESS 105 South 4th St.	5. PICK-UP DATE 11/3/2021
	PHONE NO. (575) 748-1471	CITY Artesia	STATE NM
		ZIP 88210	6. TNRCC I.D. NO.
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:	8. CONTAINERS No. Type	9. TOTAL QUANTITY
	a. Non-Regulated, Non Hazardous Waste	1 CM	10. UNIT Wt/Vol.
	b.		11. TEXAS WASTE ID #
	c.		
	d. WT: 36720 36160		
	12. COMMENTS OR SPECIAL INSTRUCTIONS: JACKSON B 55 TC 42880	13. WASTE PROFILE NO.	
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT		
	NAME JOE ONTIVEROS	PHONE NO. 575-887-4048	24-HOUR EMERGENCY NO.
	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC		
	PRINTED/TYPED NAME CO. MAN: TINA HUERTA	SIGNATURE	DATE
T R A N S P O R T E R S	16. TRANSPORTER (1) NAME: STANDARD SAFETY & SUPPLY TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: LUIS GALVADON (432) 741-2509 EMERGENCY PHONE:	17. TRANSPORTER (2) NAME: TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE:	
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME Omar Reyes SIGNATURE [Signature] DATE 11/3/2021	19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME SIGNATURE DATE	
D I S P O S I T A L Y	Lea Land, LLC	ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM	PHONE: 575-887-4048
	PERMIT NO. WM-01-035 - New Mexico	20. COMMENTS	
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.		
	AUTHORIZED SIGNATURE [Signature]	CELL NO.	DATE 11/3/2021
			TIME 9:00

GENERATOR: COPIES 1 &amp; 6

DISPOSAL SITE: COPIES 2 &amp; 3

TRANSPORTERS: COPIES 4 &amp; 5

COPY 1



## LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

CRG

## NON-HAZARDOUS WASTE MANIFEST

NO 147798

1. PAGE \_\_\_ OF \_\_\_

2. TRAILER NO.

20

G

3. COMPANY NAME  
E.O.G. Resources4. ADDRESS  
105 South 4th St.5. PICK-UP DATE  
11/3/2021

E

PHONE NO.  
(575) 748-1471CITY  
ArtesiaSTATE  
NMZIP  
88210

6. TNRCC I.D. NO.

N

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. Non-Regulated, Non Hazardous Waste

8. CONTAINERS  
No. Type9. TOTAL  
QUANTITY10. UNIT  
Wt/Vol.11. TEXAS  
WASTE ID #

1 CM

E

b.

R

d. WT: 37580 35220

A

12. COMMENTS OR SPECIAL INSTRUCTIONS:

JACKSON B 55

13. WASTE PROFILE NO.

TE 72800

T

14.

## IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

PHONE NO

24-HOUR EMERGENCY NO.

JOE ONTIVEROS

575-887-4048

O

15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

R

PRINTED/TYPED NAME

CO. MAN: TINA HUERTA

SIGNATURE

DATE

TRANSPORTERS

16. TRANSPORTER (1)

NAME: STANDARD SAFETY &amp; SUPPLY

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT: LUIS GALVADON

EMERGENCY PHONE: (432) 741-2509

18. TRANSPORTER (1): Acknowledgment of receipt of material

PRINTED/TYPED NAME

Fernando Olivos

SIGNATURE

X Fernando O.

DATE

11/3/2021

17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. TRANSPORTER (2): Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

DISPOSAL

Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,  
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

TIME

11/3/2021

9:00



LEA LAND DISPOSAL SITE NEW MEXICO										
MILE MARKER 64 U.S. HWY 62/180 - 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048										
LEA LAND, LLC										
1100 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4251										
NON-HAZARDOUS WASTE MANIFEST				NO. <b>147824</b>	1. PAGE <b>1</b> OF <b>1</b>	2. TRAILER NO. <b>03</b>				
G	3. COMPANY NAME <b>E.O.O. Resources</b>			4. ADDRESS <b>100 South 4th St.</b>			5. PICK-UP DATE <b>11/4/2021</b>			
	PHONE NO. <b>(575) 748-1471</b>			CITY STATE ZIP <b>Artesia NM 88210</b>			6. TNRCC I.D. NO.			
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED						8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol	11. TEXAS WASTE ID #
N	<b>Non-Regulated, Non Hazardous Waste</b>						<b>1</b> <b>CM</b>			
E										
R										
A	12. COMMENTS OR SPECIAL INSTRUCTIONS <b>JACKSON B 55</b>						13. WASTE PROFILE NO.			
T	14. IN CASE OF EMERGENCY OR SPILL, CONTACT									
O	NAME <b>JOE ONTIVEROS</b>		PHONE NO. <b>575-887-4048</b>		24-HOUR EMERGENCY NO.					
R	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC.									
T R A N S P O R T E R S	16. TRANSPORTER (1)					17. TRANSPORTER (2)				
	NAME: <b>STANDARD SAFETY &amp; SUPPLY</b>					NAME:				
	TEXAS I.D. NO.					TEXAS I.D. NO.				
	IN CASE OF EMERGENCY CONTACT: <b>LUIS GALVADON</b> <b>(432) 741-2509</b>					IN CASE OF EMERGENCY CONTACT:				
	18. TRANSPORTER (1): Acknowledgment of receipt of material					19. TRANSPORTER (2): Acknowledgment of receipt of material				
	PRINTED/TYPED NAME: <b>Cecil Beaudry</b>					PRINTED/TYPED NAME:				
	SIGNATURE: <b>Cecil Beaudry</b> DATE: <b>11/4/2021</b>					SIGNATURE: DATE:				
D I S P O S I T Y	Lea Land, LLC			ADDRESS: <b>Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM</b>			PHONE: <b>575-887-4048</b>			
	PERMIT NO. <b>WM-01-035 - New Mexico</b>			20. COMMENTS						
	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.									
	AUTHORIZED SIGNATURE: <b>Dante Gonzalez</b>			CELL NO.			DATE: <b>11/4/2021</b>		TIME: <b>8:55</b>	
GENERATOR: COPIES 1 & 6			DISPOSAL SITE: COPIES 2 & 3			TRANSPORTERS: COPIES 4 & 5				
COPY 1										

LEA LAND DISPOSAL SITE NEW MEXICO										
MILE MARKER #64 U.S. HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048										
LEA LAND, LLC										
1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257										
NON-HAZARDOUS WASTE MANIFEST				NO. 147825		1. PAGE ____ OF ____		2. TRAILER NO. JCR-02		
G	3. COMPANY NAME E.C.O. Resources			4. ADDRESS 106 South 4th St.			5. PICK-UP DATE 11/4/2021			
	PHONE NO. (575) 748-1471			CITY STATE ZIP Artesia NM 88210			6. TNRUC I.D. NO.			
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED						8. CONTAINERS No. Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol	11. TEXAS WASTE ID #
N	Non-Regulated, Non Hazardous Waste						1	CM		
E										
R	WT: 33,020 31,820									
A	12. COMMENTS OR SPECIAL INSTRUCTIONS JACKSON B 55						13. WASTE PROFILE NO.			
T	14. IN CASE OF EMERGENCY OR SPILL, CONTACT									
O	NAME PHONE NO. 24-HOUR EMERGENCY NO. JOE ONTIVEROS 575-887-4048									
R	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC.									
	PRINTED/TYPED NAME CO. MAN: TINA HUERTA						SIGNATURE DATE			
T	16. TRANSPORTER (1)						17. TRANSPORTER (2)			
R	NAME: STANDARD SAFETY & SUPPLY						NAME:			
A	TEXAS I.D. NO.						TEXAS I.D. NO.			
N	IN CASE OF EMERGENCY CONTACT: LUIS GALVADON (432) 741-2509						IN CASE OF EMERGENCY CONTACT:			
S	EMERGENCY PHONE:						EMERGENCY PHONE:			
P	18. TRANSPORTER (1): Acknowledgment of receipt of material						19. TRANSPORTER (2): Acknowledgment of receipt of material			
O	PRINTED/TYPED NAME: Rafael Aranda						PRINTED/TYPED NAME:			
R	SIGNATURE: [Signature] DATE: 11/4/2021						SIGNATURE DATE			
	20. COMMENTS			ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM			PHONE: 575-887-4048			
D	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.			PERMIT NO. WM-01-035 - New Mexico						
F	AUTHORIZED SIGNATURE: [Signature]			CELL NO.			DATE: 11/4/2021		TIME: 9:00	
I	DISPOSAL SITE: COPIES 2 & 3									
S	GENERATOR: COPIES 1 & 4									
C	TRANSPORTERS: COPIES 4 & 5									
P	COPY 1									



LEA LAND DISPOSAL SITE NEW MEXICO										
MILE MARKER 64 U.S. HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048										
LEA LAND, LLC 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4237										
<b>NON-HAZARDOUS WASTE MANIFEST</b>				NO. <b>147826</b>	1. PAGE <b>OF</b>	2. TRAILER NO. <b>9964</b>				
G E N E R A T O R	3. COMPANY NAME <b>E.O.G. Resources</b>		4. ADDRESS <b>105 South 4th St.</b>		5. DATE <b>11/4/2021</b>		6. TNRCC ID NO.			
	PHONE NO. <b>(575) 748-1471</b>		CITY <b>Artesia</b>	STATE <b>NM</b>	ZIP <b>88210</b>					
N E M O N	7. NAME OR DESCRIPTION OF WASTE SHIPPED <b>*Non-Regulated, Non Hazardous Waste</b>				8. CONTAINERS No. <b>1</b> Type <b>CM</b>	9. TOTAL QUANTITY	10. UNIT Wt/Vol	11. TEXAS WASTE ID #		
R E C E I V E R	12. COMMENTS OR SPECIAL INSTRUCTIONS <b>JACKSON B 55</b>				13. WASTE PROFILE NO.					
T R A N S P O R T E R	14. IN CASE OF EMERGENCY OR SPILL, CONTACT									
	NAME <b>JOE ONTIVEROS</b> PHONE NO. <b>575-887-4048</b> 24-HOUR EMERGENCY NO.									
D I S P O S I T A R Y	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this manifest are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC.				16. TRANSPORTER (1)					
	PRINTED/TYPED NAME <b>CO. MAN: TINA HUERTA</b>				SIGNATURE <b>[Signature]</b> DATE					
D I S P O S I T A R Y	17. TRANSPORTER (2)				18. TRANSPORTER (1): Acknowledgment of receipt of material					
	NAME <b>STANDARD SAFETY &amp; SUPPLY</b> TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: <b>LUIS GALVADON</b> EMERGENCY PHONE: <b>(432) 741-2500</b>				NAME <b>[Signature]</b> TEXAS I.D. NO. IN CASE OF EMERGENCY CONTACT: EMERGENCY PHONE: PRINTED/TYPED NAME <b>[Signature]</b> DATE <b>11/4/2021</b>					
D I S P O S I T A R Y	19. TRANSPORTER (2): Acknowledgment of receipt of material				20. COMMENTS					
	PRINTED/TYPED NAME <b>[Signature]</b> DATE <b>11/4/2021</b>				SIGNATURE <b>[Signature]</b> DATE					
D I S P O S I T A R Y	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.				22. COMMENTS					
	AUTHORIZED SIGNATURE <b>[Signature]</b>				CELL NO. DATE <b>11/4/2021</b> TIME <b>9:05</b>					
GENERATOR: COPIES 1 & 6				DISPOSAL SITE: COPIES 2 & 3				TRANSPORTERS: COPIES 4 & 5		

LEA LAND DISPOSAL SITE NEW MEXICO						
MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048						
LEA LAND, LLC						
1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257						
NON-HAZARDOUS WASTE MANIFEST			NO. <b>147828</b>	1. PAGE <b>1</b> OF <b>1</b>	2. TRAILER NO. <b>20</b>	
G E N E R A T O R	3. COMPANY NAME <b>E.O.O. Resources</b>		4. ADDRESS <b>105 South 4th St.</b>		5. PICK-UP DATE <b>11/4/2021</b>	
	PHONE NO. <b>(575) 748-1471</b>		CITY <b>Artesia</b>	STATE <b>NM</b>	ZIP <b>88210</b>	6. TNRCC ID NO.
N E M O	7. NAME OR DESCRIPTION OF WASTE SHIPPED:			8. CONTAINERS No. <b>1</b> Type <b>CM</b>	9. TOTAL QUANTITY	10. UNIT Wt/Vol
	<b>Non-Regulated, Non Hazardous Waste</b>					
R E C E I V E R	12. COMMENTS OR SPECIAL INSTRUCTIONS: <b>JACKSON B 55</b>			13. WASTE PROFILE NO.		
	14. IN CASE OF EMERGENCY OR SPILL, CONTACT NAME <b>JOE ONTIVEROS</b> PHONE NO. <b>575-887-4048</b>			24-HOUR EMERGENCY NO.		
D I S P O S I T Y	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC					
	PRINTED/TYPED NAME <b>CO. MAN: TINA HUERTA</b>			SIGNATURE _____ DATE _____		
T R A N S P O R T E R	16. TRANSPORTER (1) NAME: <b>STANDARD SAFETY &amp; SUPPLY</b> TEXAS ID NO. _____ IN CASE OF EMERGENCY CONTACT: <b>LUIS GALVADON</b> (432) 741-2500 EMERGENCY PHONE: _____			17. TRANSPORTER (2) NAME: _____ TEXAS ID NO. _____ IN CASE OF EMERGENCY CONTACT: _____ EMERGENCY PHONE: _____		
	18. TRANSPORTER (1): Acknowledgment of receipt of material PRINTED/TYPED NAME <b>Fernando Orivas</b> SIGNATURE <b>Fernando O.</b> DATE <b>11/4/2021</b>			19. TRANSPORTER (2): Acknowledgment of receipt of material PRINTED/TYPED NAME _____ SIGNATURE _____ DATE _____		
D I S P O S I T Y	Lea Land, LLC		ADDRESS: <b>Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM</b>		PHONE: <b>575-887-4048</b>	
	PERMIT NO. <b>WM-01-035 - New Mexico</b>		20. COMMENTS			
A U T H O R I Z E D	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.			22. DATE <b>11/4/2021</b>		
	AUTHORIZED SIGNATURE <b>Santos Gonzalez</b>			CELL NO. _____	DATE <b>11/4/2021</b>	
GENERATOR: COPIES 1 & 6			DISPOSAL SITE: COPIES 2 & 3			
			TRANSPORTERS: COPIES 4 & 5			

LEA LAND DISPOSAL SITE NEW MEXICO											
MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048											
LEA LAND, LLC											
1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73108 • PHONE (405) 236-4257											
NON-HAZARDOUS WASTE MANIFEST				NO. 147846		1. PAGE ___ OF ___		2. TRAILER NO. 03			
G	3. COMPANY NAME E.O.S. Resources		4. ADDRESS 105 South 4th St.		5. PICKUP DATE 11/5/2021						
	PHONE NO. (575) 748-1471		CITY Arlisa		STATE NM		ZIP 98210		6. TNECC I.D. NO.		
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED:				8. CONTAINERS No. Type		9. TOTAL QUANTITY		10. UNIT WY/64		
N	Non-Regulated, Non Hazardous Waste				1		CM				
E											
R	GWT: 32780 37820										
A	12. COMMENTS OR SPECIAL INSTRUCTIONS: JACKSON B 55				13. WASTE PROFILE NO.						
T	14. IN CASE OF EMERGENCY OR SPILL, CONTACT										
O	NAME JOE ONTIVEROS				PHONE NO. 575-887-4048		24-HOUR EMERGENCY NO.				
R	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this assignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in full respect in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC.										
T R A N S P O R T E R S	PRINTED/TYPED NAME CO. MAN: CHASE SETTLE				SIGNATURE			DATE			
	16. TRANSPORTER (1)				17. TRANSPORTER (2)						
	NAME: STANDARD SAFETY & SUPPLY				NAME:						
	TEXAS I.D. NO.				TEXAS I.D. NO.						
D I S P O S I T Y	IN CASE OF EMERGENCY CONTACT: LUIS GALVADON				IN CASE OF EMERGENCY CONTACT:						
	EMERGENCY PHONE: (432) 741-2500				EMERGENCY PHONE:						
	18. TRANSPORTER (1): Acknowledgment of receipt of material				19. TRANSPORTER (2): Acknowledgment of receipt of material						
	PRINTED/TYPED NAME: Chase Settles				PRINTED/TYPED NAME:						
SIGNATURE: [Signature]				DATE: 11/5/2021		SIGNATURE: [Signature]					
Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM				PHONE: 575-887-4048					
PERMIT NO. WM-01-035 - New Mexico				20. COMMENTS							
21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.											
AUTHORIZED SIGNATURE: [Signature]				CELL NO.		DATE: 11/5/2021		TIME: 8:50			
GENERATOR COPIES 1 & 6				DISPOSAL SITE COPIES 2 & 3				TRANSPORTERS COPIES 4 & 5			
COPY 1											



LEA LAND DISPOSAL SITE NEW MEXICO									
MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048									
LEA LAND, LLC									
1380 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4287									
NON-HAZARDOUS WASTE MANIFEST					NO	147847	1 PAGE OF	2 TRAILER NO.	9914
G	3. COMPANY NAME		E.O.G. Resources		4. ADDRESS		5. DATE		
	PHONE NO.		(575) 748-1471		CITY		STATE	ZIP	6. TSDCC I.D. NO.
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED		Non-Regulated, Non Hazardous Waste		8. CONTAINERS		9. TOTAL QUANTITY	10. UNIT	11. TEXAS WASTE ID #
					No. Type				
N	12. COMMENTS OR SPECIAL INSTRUCTIONS		JACKSON B 55		13. WASTE PROFILE NO.				
R	14. JOE ONTIVEROS		IN CASE OF EMERGENCY OR SPILL, CONTACT		24-HOUR EMERGENCY NO.				
	NAME		78780						
O	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this assignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC.								
	16. TRANSPORTER (1)				17. TRANSPORTER (2)				
T	NAME: STANDARD SAFETY & SUPPLY				NAME:				
	TEXAS I.D. NO. LUIS GALVADON				TEXAS I.D. NO.				
R	IN CASE OF EMERGENCY CONTACT: (432) 741-2509				IN CASE OF EMERGENCY CONTACT:				
	EMERGENCY PHONE:				EMERGENCY PHONE:				
S	18. TRANSPORTER (1): Acknowledgment of receipt of material				19. TRANSPORTER (2): Acknowledgment of receipt of material				
	PRINTED/TYPED NAME: <i>Jose Reyes</i>				PRINTED/TYPED NAME:				
D	SIGNATURE: <i>[Signature]</i>				SIGNATURE:				
	DATE: 11/5/2021				DATE:				
F	Lea Land, LLC		ADDRESS:		Mile Marker 64, U.S. Hwy 62/180,		PHONE: 575-887-4048		
					30 Miles East of Carlsbad, NM				
I	PERMIT NO. WM-01-035 - New Mexico				20. COMMENTS				
S	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that this facility is authorized and permitted to receive such wastes.								
	AUTHORIZED SIGNATURE: <i>[Signature]</i>				CELL NO.		DATE: 11/5/2021		TIME: 8:55
P	22. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that this facility is authorized and permitted to receive such wastes.								
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LEA LAND DISPOSAL SITE NEW MEXICO									
MILE MARKER 664 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048									
<b>LEA LAND, LLC</b> 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257									
<b>NON-HAZARDOUS WASTE MANIFEST</b> NO. <b>147848</b> 1. PAGE ____ OF ____ 2. TRAILER NO. <b>#20</b>									
G E N E R A T O R	1. COMPANY NAME <b>E.O.G. Resources</b>		405 South 4th St.		3. DATE <b>11/5/2021</b>				
	PHONE NO. <b>(575) 749-1471</b>		CITY <b>Artesia</b>	STATE <b>NM</b>	ZIP <b>86210</b>	6. TNRCC I.D. NO.			
N E E R	7. NAME OR DESCRIPTION OF WASTE SHIPPED:				8. CONTAINERS No. Type		9. TOTAL QUANTITY	10. UNIT Wt/Vol	11. TEXAS WASTE ID #
	<b>*Non-Regulated, Non-Hazardous Waste</b>				<b>1 CM</b>				
A C C E P T I N G	12. COMMENTS OR SPECIAL INSTRUCTIONS: <b>JACKSON B 55</b>				13. WASTE PROFILE NO.				
	<b>Te 78160</b>								
T R A N S P O R T E R	14. IN CASE OF EMERGENCY OR SPILL, CONTACT								
	NAME <b>JOE ONTIVEROS</b>		PHONE NO. <b>575-887-4048</b>		24-HOUR EMERGENCY NO.				
D I S P O S I T A L	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this assignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC.								
	PRINTED/TYPED NAME <b>CO. MAN: CHASE SETTLE</b>				SIGNATURE _____ DATE _____				
T R A N S P O R T E R	16. TRANSPORTER (1)				17. TRANSPORTER (2)				
	NAME: <b>STANDARD SAFETY &amp; SUPPLY</b>				NAME: _____				
T R A N S P O R T E R	TEXAS I.D. NO. _____				TEXAS I.D. NO. _____				
	IN CASE OF EMERGENCY CONTACT: <b>LUIS GALVADON</b>				IN CASE OF EMERGENCY CONTACT: _____				
T R A N S P O R T E R	EMERGENCY PHONE: <b>(432) 741-2500</b>				EMERGENCY PHONE: _____				
	18. TRANSPORTER (1): Acknowledgment of receipt of material				19. TRANSPORTER (2): Acknowledgment of receipt of material				
T R A N S P O R T E R	PRINTED/TYPED NAME <b>Fernando Olivas</b>				PRINTED/TYPED NAME _____				
	SIGNATURE <b>Fernando Olivas</b> DATE <b>11/5/2021</b>				SIGNATURE _____ DATE _____				
D I S P O S I T A L	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM			PHONE: <b>575-887-4048</b>			
	PERMIT NO. <b>WM-01-035 - New Mexico</b>		20. COMMENTS						
D I S P O S I T A L	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.								
	AUTHORIZED SIGNATURE <b>[Signature]</b>				CELL NO. _____		DATE: <b>11/5/2021</b>		TIME: <b>9:00</b>
GENERATOR: COPIES 1 & 4			DISPOSAL SITE: COPIES 2 & 3			TRANSPORTERS: COPIES 4 & 5			
COPY 1									



LEA LAND DISPOSAL SITE NEW MEXICO											
MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048											
LEA LAND, LLC											
1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257											
NON-HAZARDOUS WASTE MANIFEST				NO. <b>147849</b>		1. PAGE <b>1</b> OF <b>1</b>		2. TRAILER NO. <b>D2</b>			
G	3. COMPANY NAME <b>E.O.G. Resources</b>		4. ADDRESS <b>105 5th St.</b>		5. PICK-UP DATE <b>11/5/2021</b>						
	PHONE NO. <b>(575) 748-1471</b>		CITY STATE ZIP <b>Artesia NM 88210</b>		6. TNRCC I.D. NO.						
E	7. NAME OR DESCRIPTION OF WASTE SHIPPED				8. CONTAINERS No. Type		9. TOTAL QUANTITY	10. UNIT Wt/Vol	11. TEXAS WASTE ID #		
N	Non-Regulated, Non Hazardous Waste				1 CM						
E											
R	8WT: <b>36840</b>										
A	12. COMMENTS OR SPECIAL INSTRUCTIONS <b>JACKSON B 55.</b>				13. WASTE PROFILE NO.						
T	14. IN CASE OF EMERGENCY OR SPILL, CONTACT										
O	NAME <b>JOE ONTIVEROS</b>		PHONE NO. <b>575-887-4048</b>		24-HOUR EMERGENCY NO.						
R	15. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this assignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC										
	PRINTED/TYPED NAME <b>CO. MAN: CHASE SETTLE</b>				SIGNATURE			DATE			
T	16. TRANSPORTER (1)				17. TRANSPORTER (2)						
R	NAME: <b>STANDARD SAFETY &amp; SUPPLY</b>				NAME:						
A	TEXAS I.D. NO.				TEXAS I.D. NO.						
N	IN CASE OF EMERGENCY CONTACT: <b>LUIS GALVADON (432) 741-2509</b>				IN CASE OF EMERGENCY CONTACT:						
S	EMERGENCY PHONE:				EMERGENCY PHONE:						
P	18. TRANSPORTER (1): Acknowledgment of receipt of material				19. TRANSPORTER (2): Acknowledgment of receipt of material						
O	PRINTED/TYPED NAME <b>Chase Settle</b>				PRINTED/TYPED NAME						
R	SIGNATURE <b>[Signature]</b> DATE <b>11/5/2021</b>				SIGNATURE DATE						
D	Lea Land, LLC		ADDRESS: Mile Marker 64, U.S. Hwy 62/180, 30 Miles East of Carlsbad, NM				PHONE: 575-887-4048				
F	PERMIT NO. <b>WM-01-035 - New Mexico</b>		20. COMMENTS								
I	21. DISPOSAL FACILITY'S CERTIFICATION: I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such waste.										
C	AUTHORIZED SIGNATURE <b>[Signature]</b>				CELL NO.		DATE <b>11/5/2021</b>		TIME <b>1250</b>		
P											
I											
S											
I											
A											
T											

GENERATOR: COPIES 1 & 8      DISPOSAL SITE: COPIES 2 & 3      TRANSPORTERS: COPIES 4 & 5

**COPY 1**



# LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

## LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

### NON-HAZARDOUS WASTE MANIFEST

NO **148091**

1. PAGE    OF   

2. TRAILER NO. **D4**

5. PICK-UP DATE  
**11/16/2021**

6. TNRCC I.D. NO.

3. COMPANY NAME

**E.O.G. Resources**

PHONE NO.

**(575) 748-1171**

4. ADDRESS

**100 South 4th St.**

CITY

**Artesia**

STATE

**NM**

ZIP

**88210**

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

a. **Non-Regulated, Non Hazardous Waste**

b.

c.

d. WT: **126,40**

8. CONTAINERS  
No. Type

**1**

**CM**

9. TOTAL  
QUANTITY

10. UNIT  
Wt/Vol.

11. TEXAS  
WASTE ID #

12. COMMENTS OR SPECIAL INSTRUCTIONS:

**JACKSON B. 55**

13. WASTE PROFILE NO.

### 14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME

**JOE ONTIVEROS**

PHONE NO

**575-887-4048**

24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

**CO. MAN: CHASE SETTLE**

SIGNATURE

DATE

### 16. TRANSPORTER (1)

NAME:

**STANDARD SAFETY & SUPPLY**

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

**LUIS GALVADON**

**(432) 741-2509**

EMERGENCY PHONE:

### 17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

**11/16/2021**

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE

DATE

**Lea Land, LLC**

ADDRESS:

**Mile Marker 64, U.S. Hwy 62/180,  
30 Miles East of Carlsbad, NM**

PHONE:

**575-887-4048**

PERMIT NO.

**WM-01-035 - New Mexico**

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE

**11/16/2021**

TIME

**12:10**

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

**COPY 4**

## Appendix E

# Confirmation Sampling Notifications

## Becky Haskell

---

**From:** Chase Settle <Chase\_Settle@eogresources.com>  
**Sent:** Thursday, October 28, 2021 2:39 PM  
**To:** Becky Haskell; Zach Comino  
**Subject:** FW: Jackson B 55 (nRM2035059346) Sampling Notification

---

**From:** Tina Huerta <Tina\_Huerta@eogresources.com>  
**Sent:** Thursday, October 28, 2021 1:38 PM  
**To:** Robert.Hamlet@state.nm.us  
**Cc:** Chase Settle <Chase\_Settle@eogresources.com>; Yvette Moore <Yvette\_Moore@eogresources.com>; Ashley Bravo <Ashley\_Bravo@eogresources.com>; Katie Jamison <Katie\_Jamison@eogresources.com>; Artesia Regulatory <Artesia\_Regulatory@eogresources.com>  
**Subject:** Jackson B 55 (nRM2035059346) Sampling Notification

Good afternoon,

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

Jackson B #55  
nRM2035059346

Sampling will begin at 2:00 p.m. on Monday, November 1, 2021 and most likely continue into Tuesday, November 2, 2021.

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

---

**From:** Chase Settle <Chase\_Settle@eogresources.com>  
**Sent:** Friday, November 12, 2021 10:08 AM  
**To:** Becky Haskell; Zach Comino  
**Subject:** FW: Jackson B 55 (nRM2035059346) Sampling Notification

FYI

---

**From:** Tina Huerta <Tina\_Huerta@eogresources.com>  
**Sent:** Thursday, November 11, 2021 1:08 PM  
**To:** Robert.Hamlet@state.nm.us; blm\_nm\_cfo\_spill@blm.gov  
**Cc:** Artesia Regulatory <Artesia\_Regulatory@eogresources.com>; Chase Settle <Chase\_Settle@eogresources.com>; Yvette Moore <Yvette\_Moore@eogresources.com>; Ashley Bravo <Ashley\_Bravo@eogresources.com>; Katie Jamison <Katie\_Jamison@eogresources.com>  
**Subject:** Jackson B 55 (nRM2035059346) Sampling Notification

Good Afternoon,

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

Jackson B 55  
nRM2035059346

Sampling will begin at 12:00 p.m. on Tuesday, November 16, 2021.

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 93862

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 93862
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	4/18/2022