

Incident ID	NRM2023059703
District RP	
Facility ID	
Application ID	

## Closure

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

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

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

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

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr  
Signature: Chase Settle Date: 06/30/2022  
email: Chase Settle Telephone: 575-748-1471

**OCD Only**

Received by: Robert Hamlet Date: 11/2/2022

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: Robert Hamlet Date: 11/2/2022  
Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced



**EOG Resources, Inc.**  
Artesia Division Office  
104 S. 4<sup>th</sup> Street  
Artesia, N. M. 88210

June 30, 2022

NMOCD District II

Re: Jackson B #5 Battery  
P-1-17S-30E  
Eddy County, NM  
Incident #NRM2023059703  
Incident #NAB1733430085/2RP-4495

EOG Resources, Inc. is submitting the enclosed Closure Report for the above referenced site. The report is being submitted in reference to Incident #NRM2023059703 and #NAB173340085, and although the report addresses both sites as they were inadvertently remediated simultaneously, each will have a separate submission of the C-141 Closure Form in the NMOCD system.

If you have any questions, feel free to contact me at (575) 748-1471.

Respectfully,

*Chase Settle*

Chase Settle  
Rep Safety & Environmental Sr  
EOG Resources, Inc.

Jackson B #5 Battery  
Remediation Work Plan  
#NRM2023059703 & #NAB1733430085

---



June 30, 2022

**Jackson B #5 Battery**

**Closure Report**

**P-1-17S-30E**

**Eddy County, NM**

**June 30, 2022**

**NRM2023059703**

**NAB1733430085**

Jackson B #5 Battery  
Remediation Work Plan  
#NRM2023059703 & #NAB1733430085



June 30, 2022

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Appendix B: 2021 Status Update

Appendix C: Confirmation Summary Reports

Appendix D: Historical Burnett Release Documents

Appendix E: NMOCD Correspondence and Notifications



Jackson B #5 Battery  
Remediation Work Plan  
#NRM2023059703 & #NAB1733430085



June 30, 2022

## **I. Location**

From the intersection of US HWY 82 and Square Lake Road (CR 220), head north on Square Lake Road for 3.2 miles, then turn east on the lease road for a quarter of mile, then turn south for an 1/8<sup>th</sup> of a mile to the location.

## **II. NAB1733430085 Background**

During facility maintenance, historical impaction was discovered under the oil tanks that were located in the unlined portion of the battery. EOG initially had no knowledge of a previous Incident at the facility, however during the divestiture process of wells within the area, it was discovered that a release within the battery had been attributed to a well which produced to that facility. Therefore, the Incident had not been discovered during the initial searches when the historical impacts were discovered. The Incident was identified as NAB1733430085, which only had a C-141 Initial on file with NMOCD. We also received no further documentation from Burnett Oil Co. after correspondence with their environmental representative.

## **III. Depth to Groundwater Investigation**

As discussed within the 2021 Status Update (Appendix B) which was submitted through email to NMOCD, EOG performed a depth to groundwater exploratory boring to confirm that groundwater was indeed beyond 100 feet deep. This stipulation was part of the approval of the Remediation Plan approval received from NMOCD in January of 2021, or to use the most stringent guidelines of Table 1.

## **IV. Remedial Actions Completed**

Prior to submission of the Characterization/Remediation Plan in November 2020, the excavated area within the tank battery had been remediated to Table 1 standards. Therefore, the remaining activities to be conducted was the bioremediation of the stockpiled soils in the lined treatment cells on the adjacent production pad. These soils were treated the final time as discussed in the 2021 Status Update document, then additional water was added as needed to keep the microbes functioning to continue with the breakdown of the hydrocarbons.

EOG had the treated soil sampled on two separate occasions by a third-party environmental consultant, in September of 2021 and April of 2022. The Confirmation Summary Reports are included as Appendix C. During both events, cells within the treatment areas continued to show signs of TPH impaction above the reclamation standards of New Mexico Administrative Code (NMAC) 19.15.29.13, specifically DRO and MRO.

Due to this battery, and the wells which produced to it, being procured by another operator at the end of 2021, it was imperative to get the open excavation at the facility backfilled. This would reduce any ongoing safety risks as well as allow full access for the new operator to their facility, including to the lact unit. It was determined that the best course of action was to send the stockpiled soil to a NMOCD approved disposal facility after it had not completed bioremediation by the April 2022 confirmation sampling event. The open excavation within the battery was backfilled with clean, non-contaminated material and the liner was extended as far south as possible where a new berm was built at an existing power pole. These activities are documented in Appendix C as the third-party environmental consultant oversaw the completion of the project.

Due to the disposal of all the excavated soil, and completed backfill of the excavation, EOG hereby requests Closure of Incidents NRM2023059703 and NAB1733430085.

Jackson B #5 Battery  
Remediation Work Plan  
#NRM2023059703 & #NAB1733430085

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June 30, 2022

# Appendix A

## C-141 Closure

Incident ID	NRM2023059703
District RP	
Facility ID	
Application ID	

## Closure

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

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

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

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

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr  
Signature: Chase Settle Date: 06/30/2022  
email: Chase Settle 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: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Jackson B #5 Battery  
Remediation Work Plan  
#NRM2023059703 & #NAB1733430085

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June 30, 2022

# Appendix B

## 2021 Status Update

**From:** [Katie Jamison](#)  
**To:** [Eads, Cristina, EMNRD](#)  
**Cc:** [Chase Settle](#)  
**Subject:** EOG Resources: Jackson B #5 Battery Update (nRM2023059703)  
**Date:** Wednesday, August 4, 2021 9:05:12 AM  
**Attachments:** [JacksonB #5 Battery Update nRM2023059703.pdf](#)  
[image002.png](#)

---

Ms. Eads,

I wanted to provide an update on the Jackson B #5 Battery (nRM2023059703) bioremediation project. EOG appreciates NMOCD working with us as we develop new methods and procedures to cut our carbon footprint while still accomplishing environmental remediations so we want to keep NMOCD up to date with the progress of these projects. I've attached the update to this email, but if it needs to go through the submission portal please let me know and I'll submit it through there. We will be sending some more updates on some other sites within the next week or two, so we wanted to determine the correct process. If there are any questions or suggestions don't hesitate to contact to me.

Thank you,

*Katie Jamison*

Safety & Environmental Manager  
EOG Resources, Inc – Artesia NM Division  
105 S. Fourth Street  
Artesia, NM 88210

Cell: 575-513-9915  
Office: 575-748-4193





EOG Resources, Inc.  
Artesia Division Office  
104 S. 4<sup>th</sup> Street  
Artesia, N. M. 88210

July 27, 2021

NMOCD District II  
811 S. First St.  
Artesia, NM 88210

Re: Jackson B #5 Battery  
P-1-17S-30E  
Eddy County, NM  
Incident #NRM2023059703

EOG Resources, Inc. is submitting the enclosed remediation work plan UPDATE for the above referenced site. The update is being submitted in reference to the work plan approved on January 21, 2021.

If you have any questions, feel free to call me at (575) 748-1471.

Respectfully,

A handwritten signature in black ink, appearing to read "Chase Settle".

Chase Settle  
Rep Safety & Environmental Sr  
EOG Resources, Inc.

**Jackson B #5 Battery**  
**Remediation Work Plan Update**  
**P-1-17S-30E**  
**Eddy County, NM**  
**July 27, 2021**  
**NRM2023059703**



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II.	Updated Actions Completed.....	1
III.	Ground Water.....	1

Appendix A: Map

Appendix B: Driller Log



**I. Original Scope of Work (submitted November 13, 2020)**

Stockpiled soils have already begun bioremediation procedures with a microbial product (Liquid Remediate). The bioremediation product was administered to the stockpiled material on September 23, 2020. This consisted of mixing 50 gallons of the product with 500 gallons of water and applying the mixture to the soil within the lined and bermed treatment cells. The impacted material is in approximately a 1-1 ½ foot lift. In order to create greater contact with the mixture, the soil was lightly disked with a tractor and plow the day after application. Based on the treatment date, EOG proposes to perform the first confirmation sampling of the bioremediated soil in January 2021. 5 point composite samples will be collected with 1 sample representative of 100 cubic yards of soil. Once all samples confirm that soils are below the requirements of NMAC 19.15.29.13, they will be used to backfill the excavation. If the soils have not remediated by the January 2021 sampling, another application of the microbial product will be applied in March 2021 with sampling to occur in June 2021.

**II. Updated Actions Completed**

The initial plan submitted called to have confirmation samples taken in January of 2021, however with approval of the plan not occurring until January 21<sup>st</sup> of that month, and with the stipulation of drilling for depth to water or using the most stringent levels in Table 1, it was decided to determine the depth to water information before further actions were taken. Also, no additional application of Liquid Remediate was completed in March 2021. The only actions taken on the site was the agitation of soil and application of fresh water, 500 gallons when needed, to keep the microbes performing the bioremediation process, this was completed twice monthly beginning the first of March 2021 and continued until the week of July 9<sup>th</sup>. On July 15, 2021, a preliminary site visit was conducted in which hydrocarbon impacts were still evidenced in the treated soil by olfactory and visual methods, although much milder than at the time of initial excavation. With impacts remaining, EOG decided to apply another treatment of Liquid Remediate. On July 23, 2021, 30 gallons of Liquid Remediate was added to 300 gallons of fresh water and applied across the soils within the treatment cell. The amount of Liquid Remediate was reduced due to information we had received from the product representative, the reduction in hydrocarbon concentration after the initial treatment, and the available supply on-hand. During conversations with the product representative, it was mentioned that the product does not need to be applied more than once because the microorganisms never die and disappear but simply dry up or slow down, but always remain, so to reinvigorate them all that has to be done is the reapplication of moisture. With that knowledge and the stockpile on-hand, it was decided to treat the cell with the 30 available gallons.

The plan post July treatment is to continue agitating the soil on a bi-weekly basis and applying fresh water (500 gallons) when needed to keep the microbes from drying out. After 45 days, perform another visual/olfactory assessment of the site, and if the soils appear to have bioremediated then perform soil sampling at the stipulated sampling frequency of one sample representing no greater than 25 yards. If the visual/olfactory assessment still show signs of hydrocarbon impaction, fewer samples over a broader range may still need to be collected so current levels can be determined.

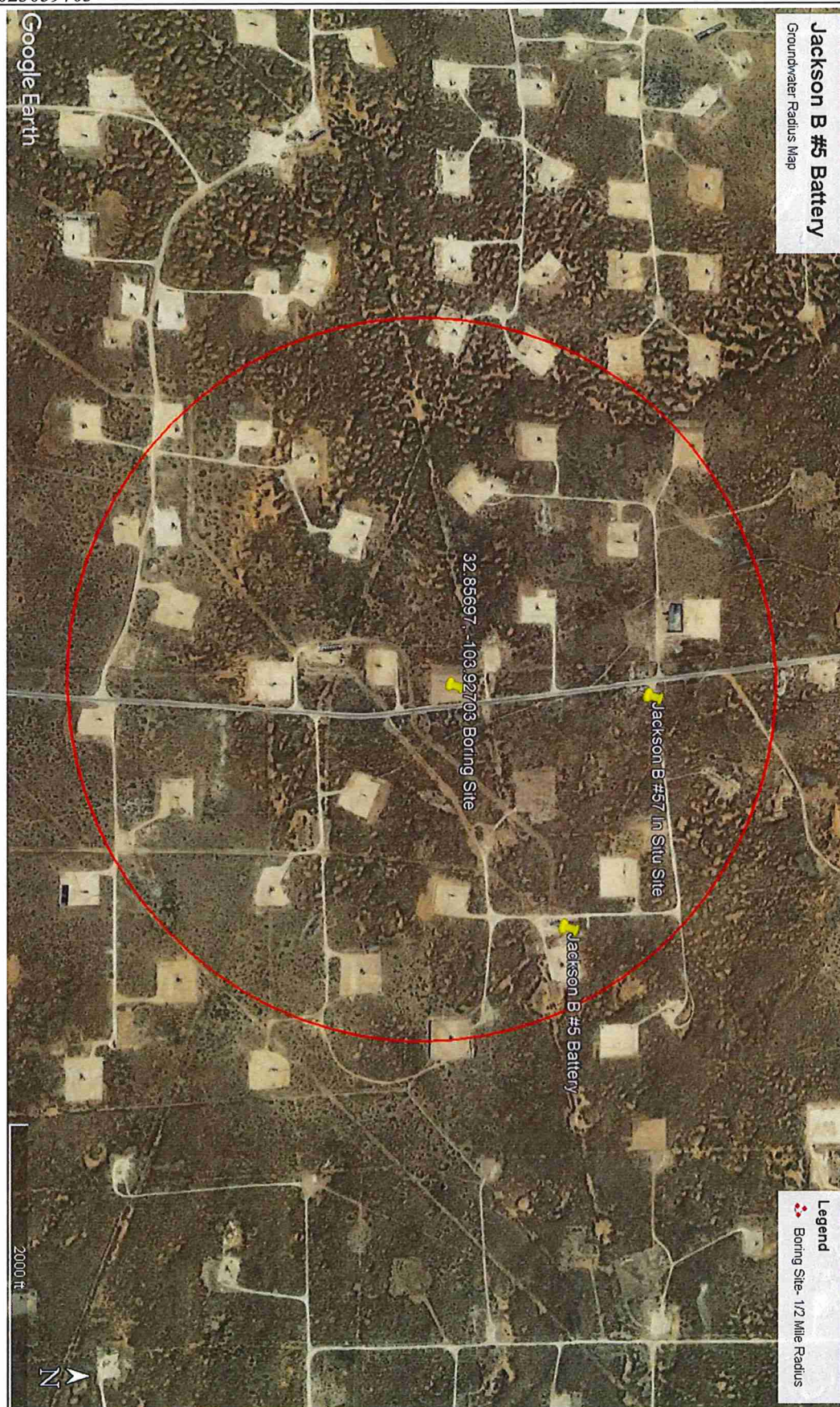
**III. Ground Water**

EOG already had a similar in situ bioremediation project with established treatment wells at depths greater than 50 feet below grade surface within 3/10ths of a mile, so depth to groundwater was known to be greater than 50 feet. However, with the concern raised by NMOCD in the approval stipulations for the Jackson B #5 Battery, EOG decided to contract Talon LPE to perform an exploratory boring within a half mile of the site. Talon LPE mobilized on May 18, 2021, at a site within a half mile of the Jackson B #5 Battery, where they extended a soil boring to 125 feet below surface grade. The boring remained open for a minimum of 72 hours, at which time Talon performed an inspection and determined that no groundwater was present or had been encountered.

# Appendix A

## Map





# Appendix B

## Driller Log



# BORING LOG

Project No.: 700438.238.01

Weather: Clear, Temp.: 75°F

Driller: D. Londagin

Site Name: Jackson B #59

Logger: D. Adkins

Rig Type: Reich Drill

Location: Eddy County, New Mexico

Field Instrument: NA

Bit Size: 5-7/8"

Date: 5/18/2021

Latitude: 32.85697 N

Drilling Method: Air Rotary

Boring Number: B-1

Longitude: -103.92703 W

Sample Retrieval Method: Drill Cuttings

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

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

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

Logger Initials: DJA



Jackson B #5 Battery  
Remediation Work Plan  
#NRM2023059703 & #NAB1733430085

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June 30, 2022

# Appendix C

## Confirmation Summary Reports



June 2, 2022

Chase Settle  
EOG Resources, Inc.  
105 South 4<sup>th</sup> Street  
Artesia, New Mexico 88210

**Re: Site Summary  
Jackson B 5 Battery  
Incident Number NRM2023059703 & NAB1733430085  
Confirmation Sampling and Backfill Summary**

Mr. Settle:

Ensolum, LLC (Ensolum) presents the following Site Summary to EOG Resources, Inc. (EOG) detailing soil sampling activities of the previously bioremediated stockpile at the Jackson B 5 Battery (Site) to determine if the stockpile is suitable for use as backfill material at the Site for Incident Number NRM2023059703 & NAB1733430085. The Site is located in Unit P, Section 1, Township 17 South, Range 30 East in Eddy County, New Mexico (Figure 1).

On April 12, 2022, Ensolum personnel collected 20 composite soil samples, C1 through C20, within the locations presented on Figure 1. The 5- point composite soil samples were collected at depths ranging from the surface of the stockpile to 1 foot below ground surface (bgs), immediately above the poly liner. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Soil from the composite soil samples was field screened for volatile aromatic hydrocarbons, utilizing a calibrated photo-ionization detector (PID), and chloride, using Hach® chloride QuanTab® test strips.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported via courier at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Hall Environmental Analysis Laboratories (HEAL) in Albuquerque, New Mexico, for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) following United States Environmental Protection Agency (EPA) Method 8021B; total petroleum hydrocarbons (TPH)-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

All composite soil samples indicated benzene, BTEX, and chloride concentrations were compliant with the New Mexico Oil Conservation Division (NMOCD) Table 1 Closure Criteria and the reclamation standard applied in the top 4 feet of soil; however, TPH concentrations exceeded the Site Closure Criteria and TPH concentrations exceed the reclamation requirement for the top 4 feet of soil. The soil sample results are summarized in Table 1 and laboratory analytical reports are included in Appendix A.

Following a review of the data, EOG determined the stockpile was not suitable for backfill. As such the soil was transported to Lea Land disposal facility. The excavation within the battery at the Site was backfilled with locally procured backfill material, recontoured to match Site conditions, and the poly liner was installed for completion of the battery liner. Photographic documentation was completed and a photographic log is included in Appedix B.

Jackson B 5 Battery



If you have any questions or comments, please contact Ms. Ashley Ager at (970) 946-1093 or [aager@ensolum.com](mailto:aager@ensolum.com).

Sincerely,  
**Ensolum, LLC**

A handwritten signature in black ink that reads 'Morrissey'.

Tacoma Morrissey  
Senior Geologist

A handwritten signature in black ink that reads 'Ashley L. Ager'.

Ashley Ager, M.S., P.G.  
Program Director

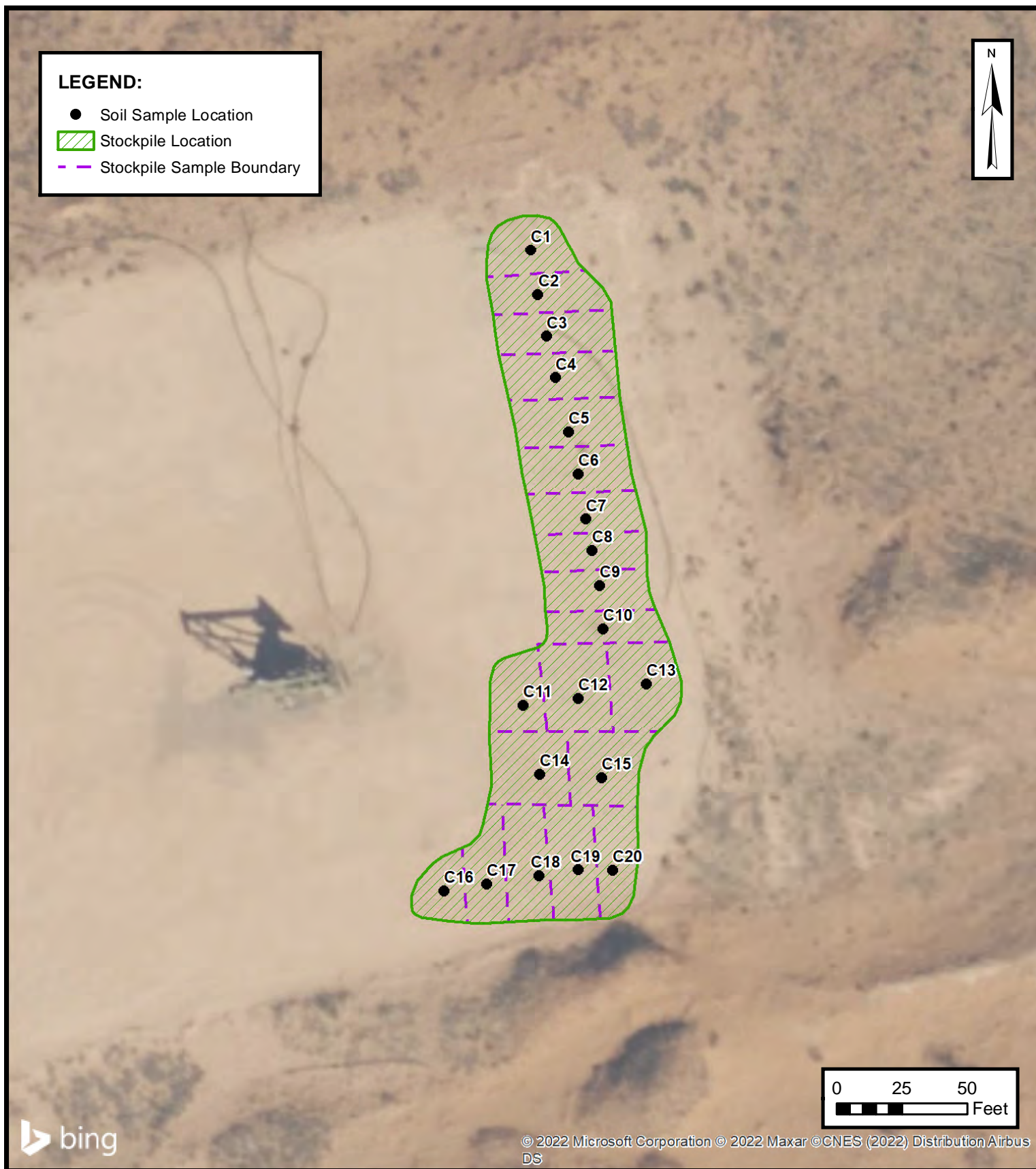
Appendices:

Figure 1	Site and Sample Location Map
Table 1	Soil Analytical Results
Appendix A	Laboratory Analytical Report and Chain of Custody Documentation
Appendix B	Photographic Log





FIGURES



**SITE AND SAMPLE LOCATION MAP**

EOG RESOURCES, INC.  
JACKSON B 5 BATTERY  
NRM2023059703  
Unit P Sec 1 T17S R30E  
Eddy County, New Mexico

**FIGURE**  
**1**



TABLES



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**

Jackson B 5 Battery  
EOG Resources, Inc.  
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Assessment Soil Samples										
C1	04/12/2022	0.5-1	<0.024	<0.09	<4.7	280	460	280	740	200
C2	04/12/2022	0.5-1	<0.023	<0.09	<4.7	420	590	420	1,010	420
C3	04/12/2022	0.5-1	<0.024	<0.10	<4.8	770	1,100	770	1,870	270
C4	04/12/2022	0.5-1	<0.024	<0.10	<4.8	1,600	470	<b>1,600</b>	2,070	330
C5	04/12/2022	0.5-1	<0.023	<0.09	<4.7	2,100	2,900	<b>2,100</b>	<b>5,000</b>	320
C6	04/12/2022	0.5-1	<0.024	<0.10	<4.9	800	1,500	800	2,300	200
C7	04/12/2022	0.5-1	<0.024	<0.10	<4.9	700	1,300	700	2,000	300
C8	04/12/2022	0.5-1	<0.023	<0.09	<4.6	810	1,400	810	2,210	160
C9	04/12/2022	0.5-1	<0.025	<0.10	<5.0	740	1,400	740	2,140	170
C10	04/12/2022	0.5-1	<0.024	<0.10	<4.8	830	1,500	830	2,330	180
C11	04/12/2022	0.5-1	<0.025	<0.10	<4.9	570	1,000	570	1,570	160
C12	04/12/2022	0.5-1	<0.024	<0.10	<4.8	1,100	1,600	<b>1,100</b>	<b>2,700</b>	280
C13	04/12/2022	0.5-1	<0.025	<0.10	<5.0	1,500	2,100	<b>1,500</b>	<b>3,600</b>	480
C14	04/12/2022	0.5-1	<0.024	<0.10	<4.8	910	1,500	910	2,410	160
C15	04/12/2022	0.5-1	<0.024	<0.10	<4.8	1,000	1,600	<b>1,000</b>	<b>2,600</b>	330
C16	04/12/2022	0.5-1	<0.024	<0.10	<4.9	680	1,200	680	1,880	250
C17	04/12/2022	0.5-1	<0.025	<0.10	<5.0	720	1,100	720	1,820	520
C18	04/12/2022	0.5-1	<0.025	<0.10	<4.9	710	1,200	710	1,910	320
C19	04/12/2022	0.5-1	<0.023	<0.09	<4.6	530	870	530	1,400	370
C20	04/12/2022	0.5-1	<0.023	<0.09	<4.7	42.0	99.0	42.0	141	95.0

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX A  
Laboratory Analytical Report and Chain of Custody  
Documentation

---



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

April 27, 2022

Chase Settle

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Jackson B 5 Battery

OrderNo.: 2204724

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 20 sample(s) on 4/15/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2204724

Date Reported: 4/27/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C1

Project: Jackson B 5 Battery

Collection Date: 4/12/2022 9:15:00 AM

Lab ID: 2204724-001

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	200	60		mg/Kg	20	4/21/2022 3:34:57 AM	66958
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	280	9.9		mg/Kg	1	4/20/2022 8:32:52 PM	66891
Motor Oil Range Organics (MRO)	460	50		mg/Kg	1	4/20/2022 8:32:52 PM	66891
Surr: DNOP	76.8	51.1-141		%Rec	1	4/20/2022 8:32:52 PM	66891
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/18/2022 1:53:00 PM	66887
Surr: BFB	105	37.7-212		%Rec	1	4/18/2022 1:53:00 PM	66887
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/18/2022 1:53:00 PM	66887
Toluene	ND	0.047		mg/Kg	1	4/18/2022 1:53:00 PM	66887
Ethylbenzene	ND	0.047		mg/Kg	1	4/18/2022 1:53:00 PM	66887
Xylenes, Total	ND	0.095		mg/Kg	1	4/18/2022 1:53:00 PM	66887
Surr: 4-Bromofluorobenzene	86.4	70-130		%Rec	1	4/18/2022 1:53:00 PM	66887

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

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

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## Analytical Report

Lab Order 2204724

Date Reported: 4/27/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C2

Project: Jackson B 5 Battery

Collection Date: 4/12/2022 9:25:00 AM

Lab ID: 2204724-002

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	420	60		mg/Kg	20	4/21/2022 3:47:22 AM	66958
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	420	49		mg/Kg	5	4/20/2022 10:06:58 PM	66891
Motor Oil Range Organics (MRO)	590	250		mg/Kg	5	4/20/2022 10:06:58 PM	66891
Surr: DNOP	114	51.1-141		%Rec	5	4/20/2022 10:06:58 PM	66891
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/18/2022 2:13:00 PM	66887
Surr: BFB	101	37.7-212		%Rec	1	4/18/2022 2:13:00 PM	66887
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/18/2022 2:13:00 PM	66887
Toluene	ND	0.047		mg/Kg	1	4/18/2022 2:13:00 PM	66887
Ethylbenzene	ND	0.047		mg/Kg	1	4/18/2022 2:13:00 PM	66887
Xylenes, Total	ND	0.094		mg/Kg	1	4/18/2022 2:13:00 PM	66887
Surr: 4-Bromofluorobenzene	82.7	70-130		%Rec	1	4/18/2022 2:13:00 PM	66887

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

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

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## Analytical Report

Lab Order 2204724

Date Reported: 4/27/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C3

Project: Jackson B 5 Battery

Collection Date: 4/12/2022 9:40:00 AM

Lab ID: 2204724-003

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	270	60		mg/Kg	20	4/21/2022 3:59:46 AM	66958
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	770	94		mg/Kg	10	4/19/2022 1:57:18 AM	66891
Motor Oil Range Organics (MRO)	1100	470		mg/Kg	10	4/19/2022 1:57:18 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 1:57:18 AM	66891
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/18/2022 2:32:00 PM	66887
Surr: BFB	101	37.7-212		%Rec	1	4/18/2022 2:32:00 PM	66887
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/18/2022 2:32:00 PM	66887
Toluene	ND	0.048		mg/Kg	1	4/18/2022 2:32:00 PM	66887
Ethylbenzene	ND	0.048		mg/Kg	1	4/18/2022 2:32:00 PM	66887
Xylenes, Total	ND	0.097		mg/Kg	1	4/18/2022 2:32:00 PM	66887
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	4/18/2022 2:32:00 PM	66887

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

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

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## Analytical Report

Lab Order 2204724

Date Reported: 4/27/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C4

Project: Jackson B 5 Battery

Collection Date: 4/12/2022 9:55:00 AM

Lab ID: 2204724-004

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: CAS
Chloride	330	60		mg/Kg	20	4/21/2022 4:37:01 AM	66958
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: ED
Diesel Range Organics (DRO)	1600	94		mg/Kg	10	4/19/2022 2:21:35 AM	66891
Motor Oil Range Organics (MRO)	1900	470		mg/Kg	10	4/19/2022 2:21:35 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 2:21:35 AM	66891
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/18/2022 2:52:00 PM	66887
Surr: BFB	107	37.7-212		%Rec	1	4/18/2022 2:52:00 PM	66887
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/18/2022 2:52:00 PM	66887
Toluene	ND	0.048		mg/Kg	1	4/18/2022 2:52:00 PM	66887
Ethylbenzene	ND	0.048		mg/Kg	1	4/18/2022 2:52:00 PM	66887
Xylenes, Total	ND	0.096		mg/Kg	1	4/18/2022 2:52:00 PM	66887
Surr: 4-Bromofluorobenzene	87.2	70-130		%Rec	1	4/18/2022 2:52:00 PM	66887

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

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

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## Analytical Report

Lab Order 2204724

Date Reported: 4/27/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C5

Project: Jackson B 5 Battery

Collection Date: 4/12/2022 10:10:00 AM

Lab ID: 2204724-005

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	320	60		mg/Kg	20	4/21/2022 3:13:39 PM	66958
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	2100	98		mg/Kg	10	4/19/2022 2:46:00 AM	66891
Motor Oil Range Organics (MRO)	2900	490		mg/Kg	10	4/19/2022 2:46:00 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 2:46:00 AM	66891
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/18/2022 3:12:00 PM	66887
Surr: BFB	102	37.7-212		%Rec	1	4/18/2022 3:12:00 PM	66887
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.023		mg/Kg	1	4/18/2022 3:12:00 PM	66887
Toluene	ND	0.047		mg/Kg	1	4/18/2022 3:12:00 PM	66887
Ethylbenzene	ND	0.047		mg/Kg	1	4/18/2022 3:12:00 PM	66887
Xylenes, Total	ND	0.093		mg/Kg	1	4/18/2022 3:12:00 PM	66887
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	4/18/2022 3:12:00 PM	66887

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

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

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## Analytical Report

Lab Order 2204724

Date Reported: 4/27/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C6

Project: Jackson B 5 Battery

Collection Date: 4/12/2022 10:20:00 AM

Lab ID: 2204724-006

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	200	60		mg/Kg	20	4/21/2022 4:15:41 PM	66958
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	800	100		mg/Kg	10	4/19/2022 3:10:17 AM	66891
Motor Oil Range Organics (MRO)	1500	500		mg/Kg	10	4/19/2022 3:10:17 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 3:10:17 AM	66891
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/18/2022 3:32:00 PM	66887
Surr: BFB	99.3	37.7-212		%Rec	1	4/18/2022 3:32:00 PM	66887
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	4/18/2022 3:32:00 PM	66887
Toluene	ND	0.049		mg/Kg	1	4/18/2022 3:32:00 PM	66887
Ethylbenzene	ND	0.049		mg/Kg	1	4/18/2022 3:32:00 PM	66887
Xylenes, Total	ND	0.097		mg/Kg	1	4/18/2022 3:32:00 PM	66887
Surr: 4-Bromofluorobenzene	83.5	70-130		%Rec	1	4/18/2022 3:32:00 PM	66887

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

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

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## Analytical Report

Lab Order 2204724

Date Reported: 4/27/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C7

Project: Jackson B 5 Battery

Collection Date: 4/12/2022 10:35:00 AM

Lab ID: 2204724-007

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	300	60		mg/Kg	20	4/21/2022 4:28:05 PM	66958
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	700	96		mg/Kg	10	4/19/2022 3:34:43 AM	66891
Motor Oil Range Organics (MRO)	1300	480		mg/Kg	10	4/19/2022 3:34:43 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 3:34:43 AM	66891
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/18/2022 4:50:00 PM	66887
Surr: BFB	103	37.7-212		%Rec	1	4/18/2022 4:50:00 PM	66887
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	4/18/2022 4:50:00 PM	66887
Toluene	ND	0.049		mg/Kg	1	4/18/2022 4:50:00 PM	66887
Ethylbenzene	ND	0.049		mg/Kg	1	4/18/2022 4:50:00 PM	66887
Xylenes, Total	ND	0.097		mg/Kg	1	4/18/2022 4:50:00 PM	66887
Surr: 4-Bromofluorobenzene	83.8	70-130		%Rec	1	4/18/2022 4:50:00 PM	66887

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

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

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## Analytical Report

Lab Order 2204724

Date Reported: 4/27/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C8

Project: Jackson B 5 Battery

Collection Date: 4/12/2022 11:45:00 AM

Lab ID: 2204724-008

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	160	60		mg/Kg	20	4/21/2022 4:40:30 PM	66958
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	810	95		mg/Kg	10	4/19/2022 3:59:10 AM	66891
Motor Oil Range Organics (MRO)	1400	480		mg/Kg	10	4/19/2022 3:59:10 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 3:59:10 AM	66891
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/18/2022 5:10:00 PM	66887
Surr: BFB	99.8	37.7-212		%Rec	1	4/18/2022 5:10:00 PM	66887
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.023		mg/Kg	1	4/18/2022 5:10:00 PM	66887
Toluene	ND	0.046		mg/Kg	1	4/18/2022 5:10:00 PM	66887
Ethylbenzene	ND	0.046		mg/Kg	1	4/18/2022 5:10:00 PM	66887
Xylenes, Total	ND	0.092		mg/Kg	1	4/18/2022 5:10:00 PM	66887
Surr: 4-Bromofluorobenzene	84.4	70-130		%Rec	1	4/18/2022 5:10:00 PM	66887

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

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

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## Analytical Report

Lab Order 2204724

Date Reported: 4/27/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C9

Project: Jackson B 5 Battery

Collection Date: 4/12/2022 11:00:00 AM

Lab ID: 2204724-009

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	170	60		mg/Kg	20	4/21/2022 4:52:54 PM	66958
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	740	95		mg/Kg	10	4/19/2022 4:23:21 AM	66891
Motor Oil Range Organics (MRO)	1400	470		mg/Kg	10	4/19/2022 4:23:21 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 4:23:21 AM	66891
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/18/2022 5:29:00 PM	66887
Surr: BFB	101	37.7-212		%Rec	1	4/18/2022 5:29:00 PM	66887
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	4/18/2022 5:29:00 PM	66887
Toluene	ND	0.050		mg/Kg	1	4/18/2022 5:29:00 PM	66887
Ethylbenzene	ND	0.050		mg/Kg	1	4/18/2022 5:29:00 PM	66887
Xylenes, Total	ND	0.10		mg/Kg	1	4/18/2022 5:29:00 PM	66887
Surr: 4-Bromofluorobenzene	83.7	70-130		%Rec	1	4/18/2022 5:29:00 PM	66887

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

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

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## Analytical Report

Lab Order 2204724

Date Reported: 4/27/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C10

Project: Jackson B 5 Battery

Collection Date: 4/12/2022 11:20:00 AM

Lab ID: 2204724-010

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	180	61		mg/Kg	20	4/21/2022 5:05:18 PM	66958
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	830	96		mg/Kg	10	4/19/2022 4:47:38 AM	66891
Motor Oil Range Organics (MRO)	1500	480		mg/Kg	10	4/19/2022 4:47:38 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 4:47:38 AM	66891
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/18/2022 5:49:00 PM	66887
Surr: BFB	108	37.7-212		%Rec	1	4/18/2022 5:49:00 PM	66887
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	4/18/2022 5:49:00 PM	66887
Toluene	ND	0.048		mg/Kg	1	4/18/2022 5:49:00 PM	66887
Ethylbenzene	ND	0.048		mg/Kg	1	4/18/2022 5:49:00 PM	66887
Xylenes, Total	ND	0.097		mg/Kg	1	4/18/2022 5:49:00 PM	66887
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	4/18/2022 5:49:00 PM	66887

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

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

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## Analytical Report

Lab Order 2204724

Date Reported: 4/27/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C11

Project: Jackson B 5 Battery

Collection Date: 4/12/2022 11:35:00 AM

Lab ID: 2204724-011

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	160	61		mg/Kg	20	4/21/2022 5:17:42 PM	66958
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	570	91		mg/Kg	10	4/19/2022 5:11:41 AM	66891
Motor Oil Range Organics (MRO)	1000	460		mg/Kg	10	4/19/2022 5:11:41 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 5:11:41 AM	66891
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/18/2022 6:09:00 PM	66887
Surr: BFB	103	37.7-212		%Rec	1	4/18/2022 6:09:00 PM	66887
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	4/18/2022 6:09:00 PM	66887
Toluene	ND	0.049		mg/Kg	1	4/18/2022 6:09:00 PM	66887
Ethylbenzene	ND	0.049		mg/Kg	1	4/18/2022 6:09:00 PM	66887
Xylenes, Total	ND	0.099		mg/Kg	1	4/18/2022 6:09:00 PM	66887
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	4/18/2022 6:09:00 PM	66887

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

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

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## Analytical Report

Lab Order 2204724

Date Reported: 4/27/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C12

Project: Jackson B 5 Battery

Collection Date: 4/12/2022 12:35:00 PM

Lab ID: 2204724-012

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	280	60		mg/Kg	20	4/21/2022 5:30:06 PM	66958
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	1100	98		mg/Kg	10	4/19/2022 5:35:59 AM	66891
Motor Oil Range Organics (MRO)	1600	490		mg/Kg	10	4/19/2022 5:35:59 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 5:35:59 AM	66891
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/18/2022 6:28:00 PM	66887
Surr: BFB	105	37.7-212		%Rec	1	4/18/2022 6:28:00 PM	66887
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	4/18/2022 6:28:00 PM	66887
Toluene	ND	0.048		mg/Kg	1	4/18/2022 6:28:00 PM	66887
Ethylbenzene	ND	0.048		mg/Kg	1	4/18/2022 6:28:00 PM	66887
Xylenes, Total	ND	0.096		mg/Kg	1	4/18/2022 6:28:00 PM	66887
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	4/18/2022 6:28:00 PM	66887

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

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

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## Analytical Report

Lab Order 2204724

Date Reported: 4/27/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C13

Project: Jackson B 5 Battery

Collection Date: 4/12/2022 12:50:00 PM

Lab ID: 2204724-013

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	480	61		mg/Kg	20	4/21/2022 5:42:31 PM	66958
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	1500	93		mg/Kg	10	4/19/2022 6:00:08 AM	66891
Motor Oil Range Organics (MRO)	2100	470		mg/Kg	10	4/19/2022 6:00:08 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 6:00:08 AM	66891
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/18/2022 6:48:00 PM	66887
Surr: BFB	98.8	37.7-212		%Rec	1	4/18/2022 6:48:00 PM	66887
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	4/18/2022 6:48:00 PM	66887
Toluene	ND	0.050		mg/Kg	1	4/18/2022 6:48:00 PM	66887
Ethylbenzene	ND	0.050		mg/Kg	1	4/18/2022 6:48:00 PM	66887
Xylenes, Total	ND	0.10		mg/Kg	1	4/18/2022 6:48:00 PM	66887
Surr: 4-Bromofluorobenzene	83.8	70-130		%Rec	1	4/18/2022 6:48:00 PM	66887

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

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

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## Analytical Report

Lab Order 2204724

Date Reported: 4/27/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C14

Project: Jackson B 5 Battery

Collection Date: 4/12/2022 1:05:00 PM

Lab ID: 2204724-014

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	160	60		mg/Kg	20	4/21/2022 5:54:55 PM	66958
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	910	100		mg/Kg	10	4/19/2022 6:24:25 AM	66891
Motor Oil Range Organics (MRO)	1500	500		mg/Kg	10	4/19/2022 6:24:25 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 6:24:25 AM	66891
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/18/2022 7:08:00 PM	66887
Surr: BFB	100	37.7-212		%Rec	1	4/18/2022 7:08:00 PM	66887
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	4/18/2022 7:08:00 PM	66887
Toluene	ND	0.048		mg/Kg	1	4/18/2022 7:08:00 PM	66887
Ethylbenzene	ND	0.048		mg/Kg	1	4/18/2022 7:08:00 PM	66887
Xylenes, Total	ND	0.097		mg/Kg	1	4/18/2022 7:08:00 PM	66887
Surr: 4-Bromofluorobenzene	81.5	70-130		%Rec	1	4/18/2022 7:08:00 PM	66887

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

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

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## Analytical Report

Lab Order 2204724

Date Reported: 4/27/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C15

Project: Jackson B 5 Battery

Collection Date: 4/12/2022 1:15:00 PM

Lab ID: 2204724-015

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	330	60		mg/Kg	20	4/21/2022 6:32:09 PM	66958
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	1000	100		mg/Kg	10	4/19/2022 6:48:43 AM	66891
Motor Oil Range Organics (MRO)	1600	500		mg/Kg	10	4/19/2022 6:48:43 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 6:48:43 AM	66891
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/18/2022 7:27:00 PM	66887
Surr: BFB	101	37.7-212		%Rec	1	4/18/2022 7:27:00 PM	66887
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	4/18/2022 7:27:00 PM	66887
Toluene	ND	0.048		mg/Kg	1	4/18/2022 7:27:00 PM	66887
Ethylbenzene	ND	0.048		mg/Kg	1	4/18/2022 7:27:00 PM	66887
Xylenes, Total	ND	0.095		mg/Kg	1	4/18/2022 7:27:00 PM	66887
Surr: 4-Bromofluorobenzene	82.8	70-130		%Rec	1	4/18/2022 7:27:00 PM	66887

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

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

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## Analytical Report

Lab Order 2204724

Date Reported: 4/27/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C16

Project: Jackson B 5 Battery

Collection Date: 4/12/2022 1:30:00 PM

Lab ID: 2204724-016

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	250	60		mg/Kg	20	4/21/2022 9:37:08 PM	66985
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	680	93		mg/Kg	10	4/19/2022 7:13:04 AM	66891
Motor Oil Range Organics (MRO)	1200	470		mg/Kg	10	4/19/2022 7:13:04 AM	66891
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 7:13:04 AM	66891
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/18/2022 7:47:00 PM	66887
Surr: BFB	102	37.7-212		%Rec	1	4/18/2022 7:47:00 PM	66887
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.024		mg/Kg	1	4/18/2022 7:47:00 PM	66887
Toluene	ND	0.049		mg/Kg	1	4/18/2022 7:47:00 PM	66887
Ethylbenzene	ND	0.049		mg/Kg	1	4/18/2022 7:47:00 PM	66887
Xylenes, Total	ND	0.097		mg/Kg	1	4/18/2022 7:47:00 PM	66887
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	1	4/18/2022 7:47:00 PM	66887

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

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

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## Analytical Report

Lab Order 2204724

Date Reported: 4/27/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C17

Project: Jackson B 5 Battery

Collection Date: 4/12/2022 1:45:00 PM

Lab ID: 2204724-017

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	520	60		mg/Kg	20	4/21/2022 9:49:32 PM	66985
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	720	97		mg/Kg	10	4/19/2022 12:53:35 PM	66893
Motor Oil Range Organics (MRO)	1100	490		mg/Kg	10	4/19/2022 12:53:35 PM	66893
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 12:53:35 PM	66893
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/19/2022 1:02:00 AM	66890
Surr: BFB	101	37.7-212		%Rec	1	4/19/2022 1:02:00 AM	66890
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	4/19/2022 1:02:00 AM	66890
Toluene	ND	0.050		mg/Kg	1	4/19/2022 1:02:00 AM	66890
Ethylbenzene	ND	0.050		mg/Kg	1	4/19/2022 1:02:00 AM	66890
Xylenes, Total	ND	0.10		mg/Kg	1	4/19/2022 1:02:00 AM	66890
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	4/19/2022 1:02:00 AM	66890

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

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

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## Analytical Report

Lab Order 2204724

Date Reported: 4/27/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C18

Project: Jackson B 5 Battery

Collection Date: 4/12/2022 2:00:00 PM

Lab ID: 2204724-018

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	320	60		mg/Kg	20	4/21/2022 10:26:47 PM	66985
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	710	97		mg/Kg	10	4/19/2022 1:17:54 PM	66893
Motor Oil Range Organics (MRO)	1200	480		mg/Kg	10	4/19/2022 1:17:54 PM	66893
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 1:17:54 PM	66893
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/19/2022 2:01:00 AM	66890
Surr: BFB	104	37.7-212		%Rec	1	4/19/2022 2:01:00 AM	66890
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.025		mg/Kg	1	4/19/2022 2:01:00 AM	66890
Toluene	ND	0.049		mg/Kg	1	4/19/2022 2:01:00 AM	66890
Ethylbenzene	ND	0.049		mg/Kg	1	4/19/2022 2:01:00 AM	66890
Xylenes, Total	ND	0.099		mg/Kg	1	4/19/2022 2:01:00 AM	66890
Surr: 4-Bromofluorobenzene	83.2	70-130		%Rec	1	4/19/2022 2:01:00 AM	66890

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

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

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## Analytical Report

Lab Order 2204724

Date Reported: 4/27/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C19

Project: Jackson B 5 Battery

Collection Date: 4/12/2022 2:15:00 PM

Lab ID: 2204724-019

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	370	60		mg/Kg	20	4/21/2022 10:39:11 PM	66985
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	530	92		mg/Kg	10	4/19/2022 1:42:28 PM	66893
Motor Oil Range Organics (MRO)	870	460		mg/Kg	10	4/19/2022 1:42:28 PM	66893
Surr: DNOP	0	51.1-141	S	%Rec	10	4/19/2022 1:42:28 PM	66893
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/19/2022 2:21:00 AM	66890
Surr: BFB	102	37.7-212		%Rec	1	4/19/2022 2:21:00 AM	66890
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.023		mg/Kg	1	4/19/2022 2:21:00 AM	66890
Toluene	ND	0.046		mg/Kg	1	4/19/2022 2:21:00 AM	66890
Ethylbenzene	ND	0.046		mg/Kg	1	4/19/2022 2:21:00 AM	66890
Xylenes, Total	ND	0.092		mg/Kg	1	4/19/2022 2:21:00 AM	66890
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	4/19/2022 2:21:00 AM	66890

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

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

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## Analytical Report

Lab Order 2204724

Date Reported: 4/27/2022

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: C20

Project: Jackson B 5 Battery

Collection Date: 4/12/2022 2:30:00 PM

Lab ID: 2204724-020

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	95	60		mg/Kg	20	4/21/2022 10:51:36 PM	66985
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
Diesel Range Organics (DRO)	42	9.1		mg/Kg	1	4/19/2022 2:06:56 PM	66893
Motor Oil Range Organics (MRO)	99	46		mg/Kg	1	4/19/2022 2:06:56 PM	66893
Surr: DNOP	98.1	51.1-141		%Rec	1	4/19/2022 2:06:56 PM	66893
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>BRM</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/19/2022 2:41:00 AM	66890
Surr: BFB	105	37.7-212		%Rec	1	4/19/2022 2:41:00 AM	66890
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>BRM</b>
Benzene	ND	0.023		mg/Kg	1	4/19/2022 2:41:00 AM	66890
Toluene	ND	0.047		mg/Kg	1	4/19/2022 2:41:00 AM	66890
Ethylbenzene	ND	0.047		mg/Kg	1	4/19/2022 2:41:00 AM	66890
Xylenes, Total	ND	0.094		mg/Kg	1	4/19/2022 2:41:00 AM	66890
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	4/19/2022 2:41:00 AM	66890

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

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

Page 20 of 24

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

WO#: 2204724

27-Apr-22

**Client:** EOG  
**Project:** Jackson B 5 Battery

Sample ID: <b>MB-66958</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66958</b>	RunNo: <b>87394</b>								
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>	SeqNo: <b>3091542</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-66958</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66958</b>	RunNo: <b>87394</b>								
Prep Date: <b>4/20/2022</b>	Analysis Date: <b>4/21/2022</b>	SeqNo: <b>3091543</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			

Sample ID: <b>MB-66985</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>66985</b>	RunNo: <b>87437</b>								
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/21/2022</b>	SeqNo: <b>3093356</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-66985</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>66985</b>	RunNo: <b>87437</b>								
Prep Date: <b>4/21/2022</b>	Analysis Date: <b>4/21/2022</b>	SeqNo: <b>3093357</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	95.9	90	110			

**Qualifiers:**

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

B Analyte detected in the associated Method Blank  
E Estimated value  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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

WO#: 2204724

27-Apr-22

**Client:** EOG  
**Project:** Jackson B 5 Battery

Sample ID: <b>LCS-66893</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>66893</b>		RunNo: <b>87361</b>							
Prep Date: <b>4/15/2022</b>	Analysis Date: <b>4/19/2022</b>		SeqNo: <b>3090508</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.8	68.9	135			
Surr: DNOP	4.3		5.000		86.1	51.1	141			

Sample ID: <b>MB-66893</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>66893</b>		RunNo: <b>87361</b>							
Prep Date: <b>4/15/2022</b>	Analysis Date: <b>4/19/2022</b>		SeqNo: <b>3090511</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		102	51.1	141			

Sample ID: <b>MB-66891</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>66891</b>		RunNo: <b>87372</b>							
Prep Date: <b>4/15/2022</b>	Analysis Date: <b>4/20/2022</b>		SeqNo: <b>3090970</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	7.1		10.00		70.7	51.1	141			

Sample ID: <b>LCS-66891</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>66891</b>		RunNo: <b>87372</b>							
Prep Date: <b>4/15/2022</b>	Analysis Date: <b>4/20/2022</b>		SeqNo: <b>3090971</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	112	68.9	135			
Surr: DNOP	3.0		5.000		60.5	51.1	141			

**Qualifiers:**

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: 2204724

27-Apr-22

**Client:** EOG  
**Project:** Jackson B 5 Battery

Sample ID: <b>ics-66887</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66887</b>			RunNo: <b>87322</b>						
Prep Date: <b>4/15/2022</b>	Analysis Date: <b>4/18/2022</b>			SeqNo: <b>3088051</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.3	137			
Surr: BFB	2400		1000		236	37.7	212			S

Sample ID: <b>mb-66887</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66887</b>			RunNo: <b>87322</b>						
Prep Date: <b>4/15/2022</b>	Analysis Date: <b>4/18/2022</b>			SeqNo: <b>3088052</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	37.7	212			

Sample ID: <b>ics-66890</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66890</b>			RunNo: <b>87322</b>						
Prep Date: <b>4/15/2022</b>	Analysis Date: <b>4/18/2022</b>			SeqNo: <b>3088075</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	110	72.3	137			
Surr: BFB	2300		1000		233	37.7	212			S

Sample ID: <b>mb-66890</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66890</b>			RunNo: <b>87322</b>						
Prep Date: <b>4/15/2022</b>	Analysis Date: <b>4/18/2022</b>			SeqNo: <b>3088076</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		108	37.7	212			

**Qualifiers:**

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

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

WO#: 2204724

27-Apr-22

**Client:** EOG  
**Project:** Jackson B 5 Battery

Sample ID: <b>ics-66887</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66887</b>			RunNo: <b>87322</b>						
Prep Date: <b>4/15/2022</b>	Analysis Date: <b>4/18/2022</b>			SeqNo: <b>3088091</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.7	80	120			
Toluene	0.87	0.050	1.000	0	86.8	80	120			
Ethylbenzene	0.87	0.050	1.000	0	87.3	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.3	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.4	70	130			

Sample ID: <b>mb-66887</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66887</b>			RunNo: <b>87322</b>						
Prep Date: <b>4/15/2022</b>	Analysis Date: <b>4/18/2022</b>			SeqNo: <b>3088092</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.6	70	130			

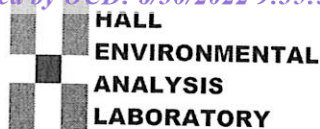
Sample ID: <b>ics-66890</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>66890</b>			RunNo: <b>87322</b>						
Prep Date: <b>4/15/2022</b>	Analysis Date: <b>4/18/2022</b>			SeqNo: <b>3088117</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.9	80	120			
Toluene	0.93	0.050	1.000	0	92.7	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.4	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.0	70	130			

Sample ID: <b>mb-66890</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8021B: Volatiles</b>						
Client ID: <b>PBS</b>	Batch ID: <b>66890</b>			RunNo: <b>87322</b>						
Prep Date: <b>4/15/2022</b>	Analysis Date: <b>4/18/2022</b>			SeqNo: <b>3088118</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	0.87		1.000		86.9	70	130			

**Qualifiers:**

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





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

## Sample Log-In Check List

Client Name: EOG

Work Order Number: 2204724

RcptNo: 1

Received By: Sean Livingston 4/15/2022 8:00:00 AM

Completed By: Sean Livingston 4/15/2022 8:42:01 AM

Reviewed By: SO

4/15/22

*San Lopez*  
*San Lopez*

Chain of Custody

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

Log In

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

# of preserved  
bottles checked  
for pH:

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

Adjusted?                     Checked by: *San Lopez* 4-15-22Special Handling (if applicable)

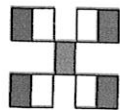
15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:                                     Date:                     By Whom:                                     Via: ☐ eMail ☐ Phone ☐ Fax ☐ In PersonRegarding:                                     Client Instructions:                                     

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.7	Good				



# HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

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

Remarks:

Amber-griffin@engresources.com

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

## Chain-of-Custody Record

Turn-Around Time:		<input checked="" type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush		3 Day	
Project Name:		Jackson B#5 Battery			
Project #:		03C2000002			
Project Manager:		Tacoma Monissey			
Sampler: Alexis Castro					
On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
# of Coolers: 1					
Cooler Temp (including CF): 5.6 + 0.1 = 5.7°C					
Container Type and #	Preservative Type	HEAL No.			
203; 1		2204724			
0915	S	C1			
0925		C2			
0940		C3			
0955		C4			
1010		C5			
1020		C6			
1035		C7			
1045		C8			
1100		C9			
1120		C10			
1135		C11			
1235		C12			
Date: 06/15/22	Time: 11:00	Relinquished by: [Signature]	Via: [Signature]	Date: 4/10/22	Time: 13:00
Date: 4/10/22	Time: 19:00	Relinquished by: [Signature]	Via: [Signature]	Date: 4/15/22	Time: 8:00







## APPENDIX B

### Photographic Log

---



**Photographic Log**

EOG Resources, Inc.

Jackson B 5 Battery

P - 1 - 17S - 30E

Eddy County, New Mexico



Photograph 1

Date: Apr 12, 2022

Description: View of stockpile on liner following sampling facing east.



Photograph 2

Date: May 9, 2022

Description: View of backfill in the tank battery facing west.



Photograph 3

Date: May 10, 2022

Description: View of installed liner facing north.



Photograph 4

Date: May 18, 2022

Description: View of final containment and berm building.

Our ref: 12562188

September 30, 2021

Chase Settle  
EOG Resources  
105 S. 4<sup>th</sup> Street  
Artesia, NM 88210

**Jackson B #55:  
Stockpile Confirmation Sampling Summary**

On September 15, 2021, GHD Services Inc., on behalf of EOG Resources, collected twenty (20) composite samples within the lined stockpile at the site, with each composite sample consisting of five (5) hand borings spaced evenly within each sample cell. Figure 1 depicts the sample locations which represent no more than 25 cubic yards. Soil samples (C1 through C20) were collected from surface to the top of the liner, approximately one (1) foot below the surface of the stockpile lifts. Soil samples were collected by GHD personnel utilizing clean/decontaminated equipment. Equipment was decontaminated between soil samples utilizing an environmental detergent (e.g., Alconox) and deionized water. Personnel wore nitrile gloves at all times, along with changing gloves between samples to avoid cross contamination. Soil samples collected were put into laboratory provided containers, logged on a laboratory chain of custody form, and placed on ice in an insulated cooler to maintain a temperature of approximately 40° F (4° - 6° C). GHD concluded work after all soil samples were sealed and taken to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico for analytical testing of BTEX by EPA method 8021B, TPH by Method 8015B Modified and Chloride by EPA Method 300 by Hall Environmental Analysis Laboratory in Albuquerque, New Mexico.

Please contact us at (432) 686-0086 if you require further information or clarification.

Sincerely,

GHD



Becky Haskell  
Senior Project Manager




CC: Tom Larson / Zach Comino

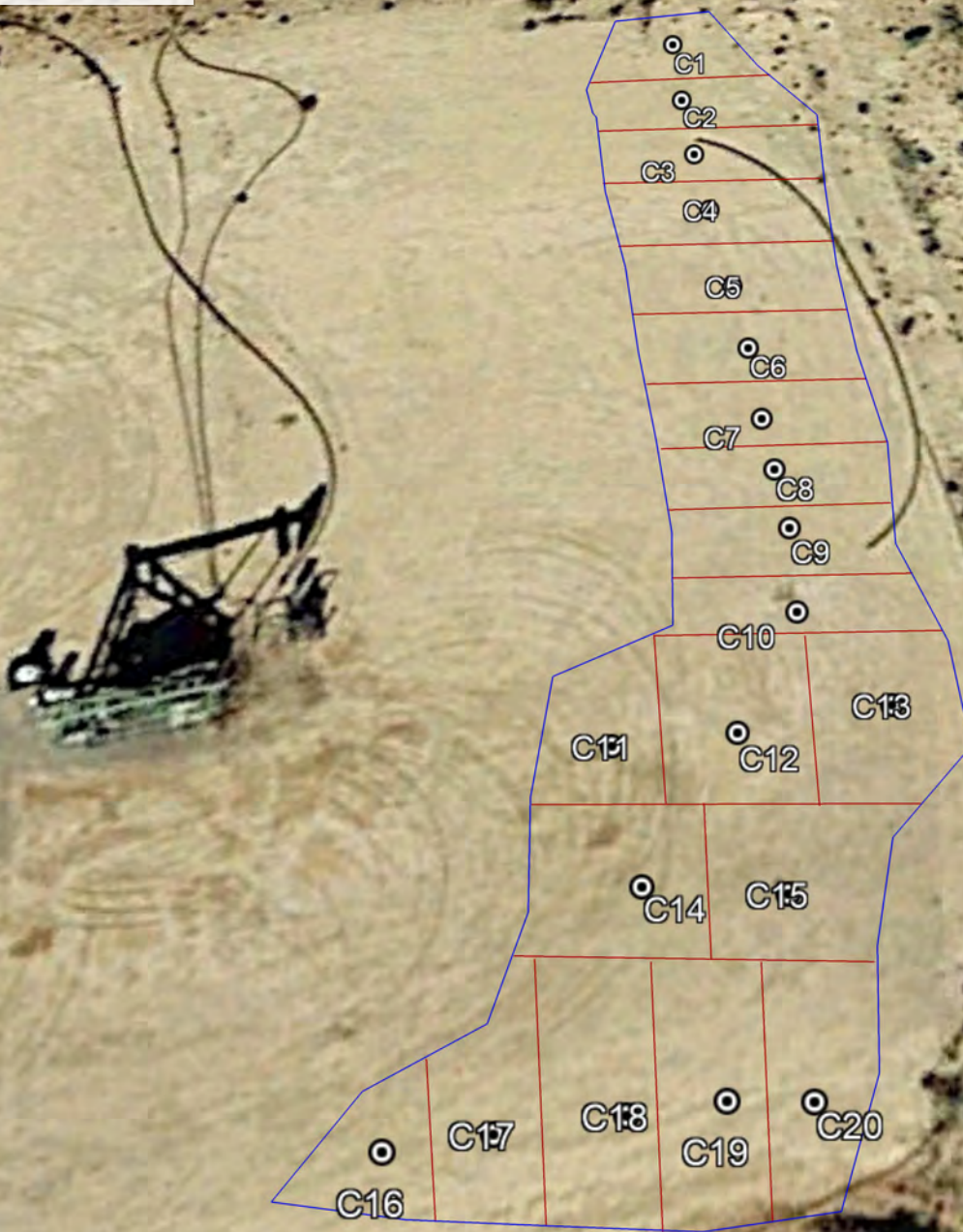


# Jackson B #5

Figure 1:  
Stockpile Sample Map

## Legend

-  Sample Area
-  Sample Point
-  Stockpile Outline



80 ft





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)

September 29, 2021

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

RE: Jackson B 5

OrderNo.: 2109816

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 20 sample(s) on 9/16/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](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 2109816

Date Reported: 9/29/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: C1

Project: Jackson B 5

Collection Date: 9/15/2021 8:30:00 AM

Lab ID: 2109816-001

Matrix: SOIL

Received Date: 9/16/2021 8:10:00 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	9/21/2021 10:00:10 PM	62712
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	150	48		mg/Kg	5	9/17/2021 3:41:07 PM	62629
Motor Oil Range Organics (MRO)	440	240		mg/Kg	5	9/17/2021 3:41:07 PM	62629
Surr: DNOP	97.0	70-130		%Rec	5	9/17/2021 3:41:07 PM	62629
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/18/2021 5:54:02 AM	62628
Surr: BFB	105	70-130		%Rec	1	9/18/2021 5:54:02 AM	62628
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.025		mg/Kg	1	9/18/2021 5:54:02 AM	62628
Toluene	ND	0.049		mg/Kg	1	9/18/2021 5:54:02 AM	62628
Ethylbenzene	ND	0.049		mg/Kg	1	9/18/2021 5:54:02 AM	62628
Xylenes, Total	ND	0.099		mg/Kg	1	9/18/2021 5:54:02 AM	62628
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	9/18/2021 5:54:02 AM	62628

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 2109816

Date Reported: 9/29/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: C2

Project: Jackson B 5

Collection Date: 9/15/2021 8:35:00 AM

Lab ID: 2109816-002

Matrix: SOIL

Received Date: 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	200	60		mg/Kg	20	9/21/2021 10:12:35 PM	62712
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	260	49		mg/Kg	5	9/17/2021 3:53:27 PM	62629
Motor Oil Range Organics (MRO)	590	250		mg/Kg	5	9/17/2021 3:53:27 PM	62629
Surr: DNOP	89.9	70-130		%Rec	5	9/17/2021 3:53:27 PM	62629
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/18/2021 6:17:22 AM	62628
Surr: BFB	107	70-130		%Rec	1	9/18/2021 6:17:22 AM	62628
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/18/2021 6:17:22 AM	62628
Toluene	ND	0.047		mg/Kg	1	9/18/2021 6:17:22 AM	62628
Ethylbenzene	ND	0.047		mg/Kg	1	9/18/2021 6:17:22 AM	62628
Xylenes, Total	ND	0.094		mg/Kg	1	9/18/2021 6:17:22 AM	62628
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	9/18/2021 6:17:22 AM	62628

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 2109816

Date Reported: 9/29/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: C3

Project: Jackson B 5

Collection Date: 9/15/2021 8:40:00 AM

Lab ID: 2109816-003

Matrix: SOIL

Received Date: 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	150	60		mg/Kg	20	9/21/2021 10:49:48 PM	62712
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	1100	190		mg/Kg	20	9/17/2021 3:35:04 PM	62629
Motor Oil Range Organics (MRO)	1700	950		mg/Kg	20	9/17/2021 3:35:04 PM	62629
Surr: DNOP	0	70-130	S	%Rec	20	9/17/2021 3:35:04 PM	62629
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/18/2021 6:40:59 AM	62628
Surr: BFB	105	70-130		%Rec	1	9/18/2021 6:40:59 AM	62628
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/18/2021 6:40:59 AM	62628
Toluene	ND	0.047		mg/Kg	1	9/18/2021 6:40:59 AM	62628
Ethylbenzene	ND	0.047		mg/Kg	1	9/18/2021 6:40:59 AM	62628
Xylenes, Total	ND	0.095		mg/Kg	1	9/18/2021 6:40:59 AM	62628
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	9/18/2021 6:40:59 AM	62628

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 2109816

Date Reported: 9/29/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: C4

Project: Jackson B 5

Collection Date: 9/15/2021 8:45:00 AM

Lab ID: 2109816-004

Matrix: SOIL

Received Date: 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	160	60		mg/Kg	20	9/21/2021 11:02:13 PM	62712
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	1700	200		mg/Kg	20	9/17/2021 1:48:19 PM	62629
Motor Oil Range Organics (MRO)	2400	990		mg/Kg	20	9/17/2021 1:48:19 PM	62629
Surr: DNOP	0	70-130	S	%Rec	20	9/17/2021 1:48:19 PM	62629
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/18/2021 7:04:34 AM	62628
Surr: BFB	101	70-130		%Rec	1	9/18/2021 7:04:34 AM	62628
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/18/2021 7:04:34 AM	62628
Toluene	ND	0.049		mg/Kg	1	9/18/2021 7:04:34 AM	62628
Ethylbenzene	ND	0.049		mg/Kg	1	9/18/2021 7:04:34 AM	62628
Xylenes, Total	ND	0.098		mg/Kg	1	9/18/2021 7:04:34 AM	62628
Surr: 4-Bromofluorobenzene	88.2	70-130		%Rec	1	9/18/2021 7:04:34 AM	62628

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 2109816

Date Reported: 9/29/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: C5

Project: Jackson B 5

Collection Date: 9/15/2021 8:50:00 AM

Lab ID: 2109816-005

Matrix: SOIL

Received Date: 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	150	59		mg/Kg	20	9/21/2021 11:14:37 PM	62712
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	1600	190		mg/Kg	20	9/17/2021 1:57:59 PM	62629
Motor Oil Range Organics (MRO)	2200	970		mg/Kg	20	9/17/2021 1:57:59 PM	62629
Surr: DNOP	0	70-130	S	%Rec	20	9/17/2021 1:57:59 PM	62629
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/18/2021 7:28:07 AM	62628
Surr: BFB	102	70-130		%Rec	1	9/18/2021 7:28:07 AM	62628
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/18/2021 7:28:07 AM	62628
Toluene	ND	0.047		mg/Kg	1	9/18/2021 7:28:07 AM	62628
Ethylbenzene	ND	0.047		mg/Kg	1	9/18/2021 7:28:07 AM	62628
Xylenes, Total	ND	0.094		mg/Kg	1	9/18/2021 7:28:07 AM	62628
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	9/18/2021 7:28:07 AM	62628

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 2109816

Date Reported: 9/29/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: C6

Project: Jackson B 5

Collection Date: 9/15/2021 9:05:00 AM

Lab ID: 2109816-006

Matrix: SOIL

Received Date: 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	110	60		mg/Kg	20	9/21/2021 11:27:02 PM	62712
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	750	200		mg/Kg	20	9/17/2021 2:07:42 PM	62629
Motor Oil Range Organics (MRO)	1600	990		mg/Kg	20	9/17/2021 2:07:42 PM	62629
Surr: DNOP	0	70-130	S	%Rec	20	9/17/2021 2:07:42 PM	62629
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/18/2021 8:38:47 AM	62628
Surr: BFB	100	70-130		%Rec	1	9/18/2021 8:38:47 AM	62628
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/18/2021 8:38:47 AM	62628
Toluene	ND	0.049		mg/Kg	1	9/18/2021 8:38:47 AM	62628
Ethylbenzene	ND	0.049		mg/Kg	1	9/18/2021 8:38:47 AM	62628
Xylenes, Total	ND	0.097		mg/Kg	1	9/18/2021 8:38:47 AM	62628
Surr: 4-Bromofluorobenzene	87.1	70-130		%Rec	1	9/18/2021 8:38:47 AM	62628

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 2109816

Date Reported: 9/29/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: C7

Project: Jackson B 5

Collection Date: 9/15/2021 9:10:00 AM

Lab ID: 2109816-007

Matrix: SOIL

Received Date: 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	280	59		mg/Kg	20	9/21/2021 11:39:27 PM	62712
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	860	200		mg/Kg	20	9/17/2021 2:17:25 PM	62629
Motor Oil Range Organics (MRO)	1600	980		mg/Kg	20	9/17/2021 2:17:25 PM	62629
Surr: DNOP	0	70-130	S	%Rec	20	9/17/2021 2:17:25 PM	62629
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/18/2021 9:02:21 AM	62628
Surr: BFB	101	70-130		%Rec	1	9/18/2021 9:02:21 AM	62628
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.023		mg/Kg	1	9/18/2021 9:02:21 AM	62628
Toluene	ND	0.047		mg/Kg	1	9/18/2021 9:02:21 AM	62628
Ethylbenzene	ND	0.047		mg/Kg	1	9/18/2021 9:02:21 AM	62628
Xylenes, Total	ND	0.093		mg/Kg	1	9/18/2021 9:02:21 AM	62628
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	1	9/18/2021 9:02:21 AM	62628

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 2109816

Date Reported: 9/29/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: C8

Project: Jackson B 5

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

Lab ID: 2109816-008

Matrix: SOIL

Received Date: 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	140	60		mg/Kg	20	9/21/2021 11:51:51 PM	62712
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	580	99		mg/Kg	10	9/21/2021 5:22:11 PM	62653
Motor Oil Range Organics (MRO)	1400	500		mg/Kg	10	9/21/2021 5:22:11 PM	62653
Surr: DNOP	0	70-130	S	%Rec	10	9/21/2021 5:22:11 PM	62653
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/18/2021 9:25:47 AM	62628
Surr: BFB	104	70-130		%Rec	1	9/18/2021 9:25:47 AM	62628
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.024		mg/Kg	1	9/18/2021 9:25:47 AM	62628
Toluene	ND	0.048		mg/Kg	1	9/18/2021 9:25:47 AM	62628
Ethylbenzene	ND	0.048		mg/Kg	1	9/18/2021 9:25:47 AM	62628
Xylenes, Total	ND	0.095		mg/Kg	1	9/18/2021 9:25:47 AM	62628
Surr: 4-Bromofluorobenzene	90.0	70-130		%Rec	1	9/18/2021 9:25:47 AM	62628

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 2109816

Date Reported: 9/29/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: C9

Project: Jackson B 5

Collection Date: 9/15/2021 9:20:00 AM

Lab ID: 2109816-009

Matrix: SOIL

Received Date: 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	75	60		mg/Kg	20	9/22/2021 12:04:15 AM	62712
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	330	94		mg/Kg	10	9/21/2021 5:34:50 PM	62653
Motor Oil Range Organics (MRO)	1200	470		mg/Kg	10	9/21/2021 5:34:50 PM	62653
Surr: DNOP	0	70-130	S	%Rec	10	9/21/2021 5:34:50 PM	62653
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/17/2021 10:24:00 AM	62631
Surr: BFB	94.2	70-130		%Rec	1	9/17/2021 10:24:00 AM	62631
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.023		mg/Kg	1	9/17/2021 10:24:00 AM	62631
Toluene	ND	0.046		mg/Kg	1	9/17/2021 10:24:00 AM	62631
Ethylbenzene	ND	0.046		mg/Kg	1	9/17/2021 10:24:00 AM	62631
Xylenes, Total	ND	0.091		mg/Kg	1	9/17/2021 10:24:00 AM	62631
Surr: 4-Bromofluorobenzene	80.6	70-130		%Rec	1	9/17/2021 10:24:00 AM	62631

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 2109816

Date Reported: 9/29/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: C10

Project: Jackson B 5

Collection Date: 9/15/2021 9:25:00 AM

Lab ID: 2109816-010

Matrix: SOIL

Received Date: 9/16/2021 8:10:00 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	9/22/2021 12:16:40 AM	62712
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	340	98		mg/Kg	10	9/21/2021 5:47:27 PM	62653
Motor Oil Range Organics (MRO)	1100	490		mg/Kg	10	9/21/2021 5:47:27 PM	62653
Surr: DNOP	0	70-130	S	%Rec	10	9/21/2021 5:47:27 PM	62653
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/17/2021 11:23:00 AM	62631
Surr: BFB	91.4	70-130		%Rec	1	9/17/2021 11:23:00 AM	62631
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.023		mg/Kg	1	9/17/2021 11:23:00 AM	62631
Toluene	ND	0.046		mg/Kg	1	9/17/2021 11:23:00 AM	62631
Ethylbenzene	ND	0.046		mg/Kg	1	9/17/2021 11:23:00 AM	62631
Xylenes, Total	ND	0.091		mg/Kg	1	9/17/2021 11:23:00 AM	62631
Surr: 4-Bromofluorobenzene	78.5	70-130		%Rec	1	9/17/2021 11:23:00 AM	62631

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 2109816

Date Reported: 9/29/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: C11

Project: Jackson B 5

Collection Date: 9/15/2021 9:45:00 AM

Lab ID: 2109816-011

Matrix: SOIL

Received Date: 9/16/2021 8:10:00 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	9/22/2021 12:29:05 AM	62712
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	170	48		mg/Kg	5	9/23/2021 10:07:49 AM	62653
Motor Oil Range Organics (MRO)	400	240		mg/Kg	5	9/23/2021 10:07:49 AM	62653
Surr: DNOP	87.0	70-130		%Rec	5	9/23/2021 10:07:49 AM	62653
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/17/2021 12:22:00 PM	62631
Surr: BFB	97.3	70-130		%Rec	1	9/17/2021 12:22:00 PM	62631
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.023		mg/Kg	1	9/17/2021 12:22:00 PM	62631
Toluene	ND	0.047		mg/Kg	1	9/17/2021 12:22:00 PM	62631
Ethylbenzene	ND	0.047		mg/Kg	1	9/17/2021 12:22:00 PM	62631
Xylenes, Total	ND	0.094		mg/Kg	1	9/17/2021 12:22:00 PM	62631
Surr: 4-Bromofluorobenzene	82.2	70-130		%Rec	1	9/17/2021 12:22:00 PM	62631

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 2109816

Date Reported: 9/29/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: C12

Project: Jackson B 5

Collection Date: 9/15/2021 9:50:00 AM

Lab ID: 2109816-012

Matrix: SOIL

Received Date: 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	200	60		mg/Kg	20	9/22/2021 12:41:30 AM	62712
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	400	100		mg/Kg	10	9/21/2021 6:12:30 PM	62653
Motor Oil Range Organics (MRO)	950	500		mg/Kg	10	9/21/2021 6:12:30 PM	62653
Surr: DNOP	0	70-130	S	%Rec	10	9/21/2021 6:12:30 PM	62653
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/17/2021 12:42:00 PM	62631
Surr: BFB	94.8	70-130		%Rec	1	9/17/2021 12:42:00 PM	62631
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.023		mg/Kg	1	9/17/2021 12:42:00 PM	62631
Toluene	ND	0.047		mg/Kg	1	9/17/2021 12:42:00 PM	62631
Ethylbenzene	ND	0.047		mg/Kg	1	9/17/2021 12:42:00 PM	62631
Xylenes, Total	ND	0.094		mg/Kg	1	9/17/2021 12:42:00 PM	62631
Surr: 4-Bromofluorobenzene	81.0	70-130		%Rec	1	9/17/2021 12:42:00 PM	62631

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 2109816

Date Reported: 9/29/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: C13

Project: Jackson B 5

Collection Date: 9/15/2021 9:55:00 AM

Lab ID: 2109816-013

Matrix: SOIL

Received Date: 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	170	60		mg/Kg	20	9/22/2021 4:00:30 AM	62717
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	790	90		mg/Kg	10	9/21/2021 6:25:06 PM	62653
Motor Oil Range Organics (MRO)	1400	450		mg/Kg	10	9/21/2021 6:25:06 PM	62653
Surr: DNOP	0	70-130	S	%Rec	10	9/21/2021 6:25:06 PM	62653
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/17/2021 1:01:00 PM	62631
Surr: BFB	95.0	70-130		%Rec	1	9/17/2021 1:01:00 PM	62631
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	9/17/2021 1:01:00 PM	62631
Toluene	ND	0.046		mg/Kg	1	9/17/2021 1:01:00 PM	62631
Ethylbenzene	ND	0.046		mg/Kg	1	9/17/2021 1:01:00 PM	62631
Xylenes, Total	ND	0.093		mg/Kg	1	9/17/2021 1:01:00 PM	62631
Surr: 4-Bromofluorobenzene	82.3	70-130		%Rec	1	9/17/2021 1:01:00 PM	62631

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 2109816

Date Reported: 9/29/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: C14

Project: Jackson B 5

Collection Date: 9/15/2021 10:00:00 AM

Lab ID: 2109816-014

Matrix: SOIL

Received Date: 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	100	60		mg/Kg	20	9/22/2021 4:12:54 AM	62717
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	160	98		mg/Kg	10	9/21/2021 6:37:52 PM	62653
Motor Oil Range Organics (MRO)	780	490		mg/Kg	10	9/21/2021 6:37:52 PM	62653
Surr: DNOP	0	70-130	S	%Rec	10	9/21/2021 6:37:52 PM	62653
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/17/2021 1:21:00 PM	62631
Surr: BFB	93.2	70-130		%Rec	1	9/17/2021 1:21:00 PM	62631
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	9/17/2021 1:21:00 PM	62631
Toluene	ND	0.047		mg/Kg	1	9/17/2021 1:21:00 PM	62631
Ethylbenzene	ND	0.047		mg/Kg	1	9/17/2021 1:21:00 PM	62631
Xylenes, Total	ND	0.095		mg/Kg	1	9/17/2021 1:21:00 PM	62631
Surr: 4-Bromofluorobenzene	81.9	70-130		%Rec	1	9/17/2021 1:21:00 PM	62631

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 2109816

Date Reported: 9/29/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: C15

Project: Jackson B 5

Collection Date: 9/15/2021 10:05:00 AM

Lab ID: 2109816-015

Matrix: SOIL

Received Date: 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	160	61		mg/Kg	20	9/22/2021 4:25:18 AM	62717
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	550	96		mg/Kg	10	9/21/2021 6:50:32 PM	62653
Motor Oil Range Organics (MRO)	1300	480		mg/Kg	10	9/21/2021 6:50:32 PM	62653
Surr: DNOP	0	70-130	S	%Rec	10	9/21/2021 6:50:32 PM	62653
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/17/2021 1:41:00 PM	62631
Surr: BFB	98.5	70-130		%Rec	1	9/17/2021 1:41:00 PM	62631
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: mb
Benzene	ND	0.025		mg/Kg	1	9/17/2021 1:41:00 PM	62631
Toluene	ND	0.050		mg/Kg	1	9/17/2021 1:41:00 PM	62631
Ethylbenzene	ND	0.050		mg/Kg	1	9/17/2021 1:41:00 PM	62631
Xylenes, Total	ND	0.099		mg/Kg	1	9/17/2021 1:41:00 PM	62631
Surr: 4-Bromofluorobenzene	84.7	70-130		%Rec	1	9/17/2021 1:41:00 PM	62631

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 2109816

Date Reported: 9/29/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: C16

Project: Jackson B 5

Collection Date: 9/15/2021 10:25:00 AM

Lab ID: 2109816-016

Matrix: SOIL

Received Date: 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	77	60		mg/Kg	20	9/22/2021 4:37:42 AM	62717
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	100	100		mg/Kg	10	9/21/2021 7:03:22 PM	62653
Motor Oil Range Organics (MRO)	720	500		mg/Kg	10	9/21/2021 7:03:22 PM	62653
Surr: DNOP	0	70-130	S	%Rec	10	9/21/2021 7:03:22 PM	62653
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/17/2021 2:01:00 PM	62631
Surr: BFB	95.7	70-130		%Rec	1	9/17/2021 2:01:00 PM	62631
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	9/17/2021 2:01:00 PM	62631
Toluene	ND	0.046		mg/Kg	1	9/17/2021 2:01:00 PM	62631
Ethylbenzene	ND	0.046		mg/Kg	1	9/17/2021 2:01:00 PM	62631
Xylenes, Total	ND	0.092		mg/Kg	1	9/17/2021 2:01:00 PM	62631
Surr: 4-Bromofluorobenzene	81.9	70-130		%Rec	1	9/17/2021 2:01:00 PM	62631

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 2109816

Date Reported: 9/29/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: C17

Project: Jackson B 5

Collection Date: 9/15/2021 10:30:00 AM

Lab ID: 2109816-017

Matrix: SOIL

Received Date: 9/16/2021 8:10:00 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	9/22/2021 4:50:07 AM	62717
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	520	96		mg/Kg	10	9/21/2021 7:16:12 PM	62653
Motor Oil Range Organics (MRO)	1200	480		mg/Kg	10	9/21/2021 7:16:12 PM	62653
Surr: DNOP	0	70-130	S	%Rec	10	9/21/2021 7:16:12 PM	62653
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/17/2021 2:21:00 PM	62631
Surr: BFB	94.9	70-130		%Rec	1	9/17/2021 2:21:00 PM	62631
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: mb
Benzene	ND	0.024		mg/Kg	1	9/17/2021 2:21:00 PM	62631
Toluene	ND	0.048		mg/Kg	1	9/17/2021 2:21:00 PM	62631
Ethylbenzene	ND	0.048		mg/Kg	1	9/17/2021 2:21:00 PM	62631
Xylenes, Total	ND	0.096		mg/Kg	1	9/17/2021 2:21:00 PM	62631
Surr: 4-Bromofluorobenzene	81.2	70-130		%Rec	1	9/17/2021 2:21:00 PM	62631

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 2109816

Date Reported: 9/29/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: C18

Project: Jackson B 5

Collection Date: 9/15/2021 10:35:00 AM

Lab ID: 2109816-018

Matrix: SOIL

Received Date: 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	130	60		mg/Kg	20	9/22/2021 5:02:32 AM	62717
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	140	10		mg/Kg	1	9/21/2021 4:44:28 PM	62653
Motor Oil Range Organics (MRO)	260	50		mg/Kg	1	9/21/2021 4:44:28 PM	62653
Surr: DNOP	91.3	70-130		%Rec	1	9/21/2021 4:44:28 PM	62653
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/17/2021 2:40:00 PM	62631
Surr: BFB	96.9	70-130		%Rec	1	9/17/2021 2:40:00 PM	62631
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	9/17/2021 2:40:00 PM	62631
Toluene	ND	0.046		mg/Kg	1	9/17/2021 2:40:00 PM	62631
Ethylbenzene	ND	0.046		mg/Kg	1	9/17/2021 2:40:00 PM	62631
Xylenes, Total	ND	0.091		mg/Kg	1	9/17/2021 2:40:00 PM	62631
Surr: 4-Bromofluorobenzene	81.9	70-130		%Rec	1	9/17/2021 2:40:00 PM	62631

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 2109816

Date Reported: 9/29/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: C19

Project: Jackson B 5

Collection Date: 9/15/2021 10:40:00 AM

Lab ID: 2109816-019

Matrix: SOIL

Received Date: 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: JMT
Chloride	120	61		mg/Kg	20	9/22/2021 5:14:56 AM	62717
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: SB
Diesel Range Organics (DRO)	170	97		mg/Kg	10	9/21/2021 7:29:09 PM	62653
Motor Oil Range Organics (MRO)	810	490		mg/Kg	10	9/21/2021 7:29:09 PM	62653
Surr: DNOP	0	70-130	S	%Rec	10	9/21/2021 7:29:09 PM	62653
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: mb
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/17/2021 3:40:00 PM	62631
Surr: BFB	95.3	70-130		%Rec	1	9/17/2021 3:40:00 PM	62631
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: mb
Benzene	ND	0.023		mg/Kg	1	9/17/2021 3:40:00 PM	62631
Toluene	ND	0.047		mg/Kg	1	9/17/2021 3:40:00 PM	62631
Ethylbenzene	ND	0.047		mg/Kg	1	9/17/2021 3:40:00 PM	62631
Xylenes, Total	ND	0.094		mg/Kg	1	9/17/2021 3:40:00 PM	62631
Surr: 4-Bromofluorobenzene	81.9	70-130		%Rec	1	9/17/2021 3:40:00 PM	62631

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 2109816

Date Reported: 9/29/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: C20

Project: Jackson B 5

Collection Date: 9/15/2021 10:45:00 AM

Lab ID: 2109816-020

Matrix: SOIL

Received Date: 9/16/2021 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	260	60		mg/Kg	20	9/22/2021 5:27:20 AM	62717
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>SB</b>
Diesel Range Organics (DRO)	150	97		mg/Kg	10	9/21/2021 7:41:46 PM	62653
Motor Oil Range Organics (MRO)	730	480		mg/Kg	10	9/21/2021 7:41:46 PM	62653
Surr: DNOP	0	70-130	S	%Rec	10	9/21/2021 7:41:46 PM	62653
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>mb</b>
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/17/2021 3:59:00 PM	62631
Surr: BFB	95.7	70-130		%Rec	1	9/17/2021 3:59:00 PM	62631
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>mb</b>
Benzene	ND	0.023		mg/Kg	1	9/17/2021 3:59:00 PM	62631
Toluene	ND	0.046		mg/Kg	1	9/17/2021 3:59:00 PM	62631
Ethylbenzene	ND	0.046		mg/Kg	1	9/17/2021 3:59:00 PM	62631
Xylenes, Total	ND	0.093		mg/Kg	1	9/17/2021 3:59:00 PM	62631
Surr: 4-Bromofluorobenzene	79.9	70-130		%Rec	1	9/17/2021 3:59:00 PM	62631

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#: 2109816

29-Sep-21

**Client:** GHD Midland**Project:** Jackson B 5

Sample ID: <b>MB-62712</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62712</b>	RunNo: <b>81415</b>								
Prep Date: <b>9/21/2021</b>	Analysis Date: <b>9/21/2021</b>	SeqNo: <b>2877567</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-62712</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62712</b>	RunNo: <b>81415</b>								
Prep Date: <b>9/21/2021</b>	Analysis Date: <b>9/21/2021</b>	SeqNo: <b>2877568</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.0	90	110			

Sample ID: <b>MB-62717</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62717</b>	RunNo: <b>81455</b>								
Prep Date: <b>9/21/2021</b>	Analysis Date: <b>9/22/2021</b>	SeqNo: <b>2877750</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-62717</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62717</b>	RunNo: <b>81455</b>								
Prep Date: <b>9/21/2021</b>	Analysis Date: <b>9/22/2021</b>	SeqNo: <b>2877751</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	96.5	90	110			

**Qualifiers:**

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

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

Page 21 of 26

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

WO#: 2109816

29-Sep-21

**Client:** GHD Midland**Project:** Jackson B 5

Sample ID: <b>MB-62629</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62629</b>	RunNo: <b>81352</b>								
Prep Date: <b>9/16/2021</b>	Analysis Date: <b>9/17/2021</b>	SeqNo: <b>2873417</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	70	130			

Sample ID: <b>LCS-62629</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62629</b>	RunNo: <b>81352</b>								
Prep Date: <b>9/16/2021</b>	Analysis Date: <b>9/17/2021</b>	SeqNo: <b>2873420</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.6	68.9	135			
Surr: DNOP	5.7		5.000		114	70	130			

Sample ID: <b>MB-62653</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62653</b>	RunNo: <b>81393</b>								
Prep Date: <b>9/17/2021</b>	Analysis Date: <b>9/20/2021</b>	SeqNo: <b>2877053</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	8.9		10.00		89.0	70	130			

Sample ID: <b>LCS-62653</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62653</b>	RunNo: <b>81393</b>								
Prep Date: <b>9/17/2021</b>	Analysis Date: <b>9/20/2021</b>	SeqNo: <b>2877054</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	99.0	68.9	135			
Surr: DNOP	5.1		5.000		102	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical 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#: 2109816

29-Sep-21

**Client:** GHD Midland**Project:** Jackson B 5

Sample ID: <b>mb-62631</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62631</b>	RunNo: <b>81375</b>								
Prep Date: <b>9/16/2021</b>	Analysis Date: <b>9/17/2021</b>	SeqNo: <b>2873975</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	970		1000		96.9	70	130			

Sample ID: <b>lcs-62631</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62631</b>	RunNo: <b>81375</b>								
Prep Date: <b>9/16/2021</b>	Analysis Date: <b>9/17/2021</b>	SeqNo: <b>2873978</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32	5.0	25.00	0	129	78.6	131			
Surr: BFB	1100		1000		109	70	130			

Sample ID: <b>2109816-009ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>C9</b>	Batch ID: <b>62631</b>	RunNo: <b>81375</b>								
Prep Date: <b>9/16/2021</b>	Analysis Date: <b>9/17/2021</b>	SeqNo: <b>2873980</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.8	24.15	0	123	61.3	114			S
Surr: BFB	1100		966.2		112	70	130			

Sample ID: <b>2109816-009amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>C9</b>	Batch ID: <b>62631</b>	RunNo: <b>81375</b>								
Prep Date: <b>9/16/2021</b>	Analysis Date: <b>9/17/2021</b>	SeqNo: <b>2873983</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.7	23.34	0	127	61.3	114	0.162	20	S
Surr: BFB	1100		933.7		113	70	130	0	0	

Sample ID: <b>mb-62628</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62628</b>	RunNo: <b>81363</b>								
Prep Date: <b>9/16/2021</b>	Analysis Date: <b>9/18/2021</b>	SeqNo: <b>2874049</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	70	130			

Sample ID: <b>lcs-62628</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62628</b>	RunNo: <b>81363</b>								
Prep Date: <b>9/16/2021</b>	Analysis Date: <b>9/17/2021</b>	SeqNo: <b>2874050</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#: 2109816  
29-Sep-21

Client: GHD Midland  
Project: Jackson B 5

Sample ID: <b>Ics-62628</b>		SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>						
Client ID: <b>LCSS</b>		Batch ID: <b>62628</b>		RunNo: <b>81363</b>						
Prep Date: <b>9/16/2021</b>		Analysis Date: <b>9/17/2021</b>		SeqNo: <b>2874050</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	116	78.6	131			
Surr: BFB	1200		1000		115	70	130			

Qualifiers:

- \*

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- 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#: 2109816

29-Sep-21

**Client:** GHD Midland**Project:** Jackson B 5

Sample ID: <b>mb-62631</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62631</b>	RunNo: <b>81375</b>								
Prep Date: <b>9/16/2021</b>	Analysis Date: <b>9/17/2021</b>	SeqNo: <b>2874036</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	0.80		1.000		80.4	70	130			

Sample ID: <b>lcs-62631</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62631</b>	RunNo: <b>81375</b>								
Prep Date: <b>9/16/2021</b>	Analysis Date: <b>9/17/2021</b>	SeqNo: <b>2874039</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	91.3	80	120			
Toluene	0.92	0.050	1.000	0	91.6	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.1	80	120			
Surr: 4-Bromofluorobenzene	0.83		1.000		82.7	70	130			

Sample ID: <b>2109816-010ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>C10</b>	Batch ID: <b>62631</b>	RunNo: <b>81375</b>								
Prep Date: <b>9/16/2021</b>	Analysis Date: <b>9/17/2021</b>	SeqNo: <b>2874043</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9615	0	94.6	80	120			
Toluene	0.93	0.048	0.9615	0	96.3	80	120			
Ethylbenzene	0.94	0.048	0.9615	0	97.5	80	120			
Xylenes, Total	2.8	0.096	2.885	0	98.0	80	120			
Surr: 4-Bromofluorobenzene	0.78		0.9615		81.1	70	130			

Sample ID: <b>2109816-010amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>C10</b>	Batch ID: <b>62631</b>	RunNo: <b>81375</b>								
Prep Date: <b>9/16/2021</b>	Analysis Date: <b>9/17/2021</b>	SeqNo: <b>2874047</b> Units: <b>mg/Kg</b>								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9524	0	95.6	80	120	0.154	20	
Toluene	0.92	0.048	0.9524	0	96.6	80	120	0.657	20	
Ethylbenzene	0.95	0.048	0.9524	0	99.5	80	120	1.12	20	
Xylenes, Total	2.8	0.095	2.857	0	99.7	80	120	0.679	20	
Surr: 4-Bromofluorobenzene	0.78		0.9524		81.5	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

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#: 2109816

29-Sep-21

**Client:** GHD Midland**Project:** Jackson B 5

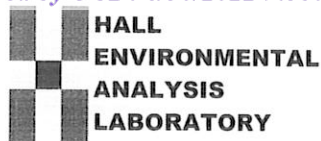
Sample ID: <b>mb-62628</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>62628</b>	RunNo: <b>81363</b>								
Prep Date: <b>9/16/2021</b>	Analysis Date: <b>9/18/2021</b>	SeqNo: <b>2874132</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	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		93.4	70	130			

Sample ID: <b>LCS-62628</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>62628</b>	RunNo: <b>81363</b>								
Prep Date: <b>9/16/2021</b>	Analysis Date: <b>9/17/2021</b>	SeqNo: <b>2874133</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.2	80	120			
Toluene	0.99	0.050	1.000	0	98.9	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.1	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		92.8	70	130			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
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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: **2109816**

RcptNo: 1

Received By: **Kasandra Payan**

9/16/2021 8:10:00 AM

Completed By: **Sean Livingston**

9/16/2021 9:35:37 AM

Reviewed By: **KPA 9/16/21**

*KPA*  
*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: *NA*  
*SO*  
*9.16.21*

### Special Handling (if applicable)

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

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

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

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

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

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

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

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.9	Good				
2	4.8	Good				

## Chain-of-Custody Record

Client: GHD

Mailing Address:

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

Phone #: (505)377-4218

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

QA/QC Package:

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

Date	Time	Matrix	Sample Name
08/15/21	0830	S	C1
	0835		C2
	0840		C3
	0845		C4
	0850		C5
	0905		C6
	0910		C7
	0915		C8
	0920		C9
	0925		C10
	0945		C11
	0950		C12

Date:	08/15/21	Time:	1200	Relinquished by:	Zach Comino
Date:	08/15/21	Time:	1900	Relinquished by:	Becky Haskell

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Jackson B #5

Project #:

12562188

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

# of Coolers: 2

Cooler Temp (including CP): 5.9 + 0.59 48 + 0.48

Container Type and #

Preservative Type

HEAL No.

2109816

001

002

003

004

005

006

007

008

009

010

011

012

Received by:

Via:

Date

Time

08/15/21

1200

Received by:

Via:

Date

Time

08/15/21

1200

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Time

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

QA/QC Package:

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

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Jackson B #5

Project #:

12562188

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

# of Coolers: 2

Cooler Temp (including CP): 5.9 + 0.5.9 6.3 + 0.6.3

Container Type and #

Preservative Type

HEAL No.

4.8 + 0 = 4.8

Jaw

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014

015

016

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018

019

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Date: 07/15/21

Time: 1200

Relinquished by: Zach Comino / JZC

Relinquished by:

Received by:

Via:

Date:

Time:

Date:

Time:

Date:

Time:

Received by: Q. Comino

Via: carrier

Date: 9/15/21

Time: 1200

Date: 9/16/21

Time: 8:10

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

BTEX / MTBE / TMB's (802-1)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

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

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)



Jackson B #5 Battery  
Remediation Work Plan  
#NRM2023059703 & #NAB1733430085

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June 30, 2022

# Appendix D

## Historical Burnett Release Documents

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

## NM OIL CONSERVATION

ARTESIA DISTRICT

NOV 20 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

Form C-141  
Revised August 8, 2011

## Release Notification and Corrective Action

## OPERATOR

X Initial Report

Final Report

Name of Company: Burnett Oil Co., Inc. <b>3080</b>	Contact: Johnny Titsworth
Address: Burnett Plaza-Site 1500, 801 Cherry St-Unit 9, Fort Worth, TX 76102	Telephone No. (432) 425-2891
Facility Name Jackson B 5 TB	Facility Type Tank Battery

Surface Owner: BLM	Mineral Owner: BLM	API No. <del>30-015-36146</del> <b>30-015-41191</b>
--------------------	--------------------	---

## LOCATION OF RELEASE

**JACKSON B 65**

Unit Letter P	Section 1	Township 17S	Range 30E	Feet from the 1145	North/South Line FSL	Feet from the 1283	East/West Line FEL	County Eddy
------------------	--------------	-----------------	--------------	-----------------------	-------------------------	-----------------------	-----------------------	----------------

Latitude: 32.85965 Longitude: -103.92107

## NATURE OF RELEASE

Type of Release: oil/pw	Volume of Release: 8/47	Volume Recovered: 5/45
Source of Release: Flare Stack	Date and Hour of Occurrence: 11/17/17 6:00 am	Date and Hour of Discovery 11/17/17 7:00 am
Was Immediate Notice Given? X Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? BLM - S. Tucker NMOCD - M. Bratcher	
By Whom? Johnny Titsworth	Date and Hour: 10/20/17 2:30 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes X No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*  
N/A

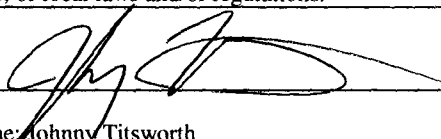

Describe Cause of Problem and Remedial Action Taken.\*

Steel pipe running from water tanks to transfer pump corroded and released oil and produced water. The pipe has been replaced and is back in service

Describe Area Affected and Cleanup Action Taken.\*

The release area is approximately 65' x 2' and 40' x 25'. The footprint is completely within the facility berm. The area will be remediated to regulatory standards

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Johnny Titsworth	Approved by Environmental Specialist: 	
Title: HSE Coordinator	Approval Date: 11/28/17	Expiration Date: N/A
E-mail Address: jtitsworth@burnettoil.com	Conditions of Approval: <b>See Attached</b>	
Date: 11/20/17 Phone: (432) 425-2891	Attached <input type="checkbox"/> <b>ARP-4495</b>	

\* Attach Additional Sheets If Necessary

11/27/17 AB

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 11/20/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number ARP-4495 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

*The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]*

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 12/20/2017. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.

- Composite sampling is not generally allowed.

- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

**Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.**

**Jim Griswold**  
OCD Environmental Bureau Chief  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505  
505-476-3465  
jim.griswold@state.nm.us

**Bratcher, Mike, EMNRD**

---

**From:** Johnny Titsworth <jtitsworth@burnettoil.com>  
**Sent:** Monday, November 20, 2017 11:29 AM  
**To:** Tucker, Shelly; Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD  
**Cc:** Kyle Adams; Leslie Garvis  
**Subject:** Jackson B 5 Tank Battery  
**Attachments:** JB 5 initial C-141 11.17.17.doc

All

Attached is the C-141 for the Jackson B 5 TB release. I am unable to send in a signed copy at this time, I am having printer difficulties. Once we have collected samples, a work plan will be submitted. If there are any questions or concerns, feel free to contact us. thanks

**Johnny Titsworth**  
HSE COORDINATOR

**BURNETT OIL CO., INC.**  
P.O. Box 188  
CR 220 North  
Loco Hills, NM 88255  
MOBILE: (432)-425-2891  
EMAIL: [jtitsworth@burnettoil.com](mailto:jtitsworth@burnettoil.com)

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**Bratcher, Mike, EMNRD**

---

**From:** Johnny Titsworth <jtitsworth@burnettoil.com>  
**Sent:** Monday, November 20, 2017 9:50 AM  
**To:** Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Tucker, Shelly  
**Cc:** Kyle Adams; Leslie Garvis  
**Subject:** Jackson B 5 TB

All

On 11/17/17, we had a release at the Jackson B 5 TB. The release was 100% contained within the facility berm. Once the release footprint has been sampled a work plan will be submitted for approval. If there are any questions or concerns, feel free to contact us. Thank you.

**Johnny Titsworth**  
HSE COORDINATOR

**BURNETT OIL CO., INC.**  
P.O. Box 188  
CR 220 North  
Loco Hills, NM 88255  
MOBILE: (432)-425-2891  
EMAIL: [jtitsworth@burnettoil.com](mailto:jtitsworth@burnettoil.com)

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Jackson B #5 Battery  
Remediation Work Plan  
#NRM2023059703 & #NAB1733430085

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June 30, 2022

# Appendix E

## NMOCD Correspondence and Notifications



**From:** OCDOOnline@state.nm.us <OCDOOnline@state.nm.us>

**Sent:** Thursday, January 21, 2021 1:06 PM

**To:** Katie Jamison <Katie\_Jamison@eogresources.com>

**Subject:** The Oil Conservation Division (OCD) has approved the application PO: GEPBH-201120-C-1410.

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern (c/o Katie Jamison for EOG RESOURCES INC),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nRM2023059703, with the following conditions:

- **Each sample should be representative of no more than 25 cubic yards.**
- **Please provide sample updates to the OCD if additional in situ remediation treatment and sampling is necessary.**
- **Evidence of the depth to groundwater determination is insufficient. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, the data should be no more than 25 years old, and well construction information should be provided. The responsible party may choose to remediate the affected area to the most stringent levels listed in Table 1 in lieu of drilling to determine the depth to groundwater.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,  
Cristina Eads  
Environmental Scientist and Specialist  
505-670-5601  
[Cristina.Eads@state.nm.us](mailto:Cristina.Eads@state.nm.us)

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**From:** [Tina Huerta](#)  
**To:** [Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)  
**Cc:** [Artesia Regulatory](#); [Chase Settle](#); [Yvette Moore](#); [Ashley Bravo](#)  
**Subject:** Jackson B 5 Battery (nRM2023059703) Sampling Notification  
**Date:** Thursday, September 9, 2021 9:54:52 AM  
**Attachments:** [image001.png](#)

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Good Morning,

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

Jackson B 5 Battery  
P-1-17S-30E  
Eddy County, NM  
nRM2023059703

Sampling will begin at 8:00 a.m. on Wednesday, September 15, 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**

**From:** [Tina Huerta](#)  
**To:** [Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us); [blm\\_nm\\_cfo\\_spill@blm.gov](mailto:blm_nm_cfo_spill@blm.gov)  
**Cc:** [Artesia S&E Spill Remediation](#); [Artesia Regulatory](#)  
**Subject:** Jackson B 5 Battery (nRM2023059703) Sampling Notification  
**Date:** Thursday, April 7, 2022 3:17:03 PM  
**Attachments:** [image001.png](#)

---

Good Afternoon,

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

Jackson B 5 Battery  
P-1-17S-30E  
Eddy County, NM  
nRM2023059703

Sampling will begin at 9:00 a.m. on Tuesday, April 12, 2022.

Thank you,

*Tina Huerta*  
*Regulatory Specialist*  
*Direct: 575.748.4168*  
*Cell: 575.703.3121*  
*Email: [tina\\_huerta@eogresources.com](mailto:tina_huerta@eogresources.com)*



**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 121848

**CONDITIONS**

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 121848
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM2023059703 JACKSON B 5 BATTERY, thank you. This closure is approved.	11/2/2022