



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

October 31, 2023

NMOCD District II
506 W. Texas
Artesia, NM 88210

Re: Jackson B #57
30-015-41003
L-1-17S-30E
Eddy County, NM
nAB1900435050

EOG Resources, Inc. is submitting the enclosed Closure Report for the above-referenced site. The Closure Report is being submitted requesting closure of Incident #nAB1900435050.

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

Respectfully,

Chase Settle

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

Jackson B #57
Closure Report
nAB1900435050



October 31, 2023

Jackson B #57
Closure Report
L-1-17S-30E
Eddy County, NM
October 31, 2023
nAB1900435050

Jackson B #57
Closure Report
nAB1900435050



October 31, 2023

Table of Contents

I.	Location.....	1
II.	Background.....	1
III.	Scope of Work Completed.....	1
IV.	Confirmation Results.....	2
V.	Conclusion.....	2

Figures:

- Figure 1: Site Map
- Figure 2: Confirmation Sample Map
- Figure 3: Treatment Well Map

Table 1: Sample Results Table

Appendices

- Appendix A: C-141 Forms
- Appendix B: Analytical Reports
- Appendix C: Bore Logs
- Appendix D: Site Photographs
- Appendix E: Agency Correspondence

Jackson B #57
Closure Report
nAB1900435050



October 31, 2023

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, the release point is the flow line sleeve under the county road.

II. Background

A release was discovered on December 1, 2018, from the Jackson B #57 poly flow line that runs through a sleeve under Square Lake Road (CR 220) to the gathering facility. The release consisted of 2 B/CO and 6 B/PW with 2 B/CO and 5 B/PW recovered. A contractor was obtained to excavate soils that were impacted by the release. Approximately 67 cubic yards of soil were excavated, 22 cubic yards from the excavation named #1 on the east side of Square Lake Road and 45 cubic yards from the excavation named #2 on the west side of Square Lake Road, leaving both sites excavated to approximately six (6) feet below grade surface (bgs). All excavated soil was sent to a NMOCD approved disposal facility. The affected area in #1 was approximately ten (10) feet by ten (10) feet and #2 was approximately twenty (20) feet by ten (10) feet. Initial vertical and horizontal soil sampling was conducted at the location with use of a backhoe on January 29, 2019.

Due to the presence of active flow lines, the asphalt county road, and the area consisting of sand soils, vertical delineation was unable to be accomplished through traditional mechanical methods. To fully delineate the sites, EOG Resources, Inc. installed a Geosynthetic Clay Liner (GCL) under the flow lines and road sleeve at six (6) feet bgs due to the completion of the horizontal confirmation sampling for the excavated areas. The GCL was installed to prevent any further vertical movement of contaminants including the chloride issues identified in the #2 excavation area. The two excavated areas (#1 and #2) were backfilled with caliche to grade to create a flat, stable surface with the ability to support an Air Rotary Core Rig. With the flow line positions clearly marked after excavation, EOG was able to safely complete vertical delineation of the release areas. Once the bottom of impaction was determined, slotted 3-inch PVC pipe was installed into the bore holes to serve as a gravity flow mechanism for a microbial bioremediation product, Rigby Taylor (RT) Remediate into the impacted areas to perform in situ remediation. Approximately one (1) gallon of the mixed product was used for every estimated cubic yard of impacted soil. The ratio of RT Remediate mixed with fresh water was 1 to 10.

II. Scope of Work Completed

The initial excavation was lined with a Geosynthetic Clay Liner and backfilled with similar type topsoil on May 17, 2019. Then a core rig was contracted to perform soil sampling activities and install treatment wells for gravitational flow injection of RT Remediate to begin bioremediation of the impacted soils. On June 25 and 26, 2019, samples were taken with treatment wells completed once sampling was concluded. There were 8 treatment wells installed at the site, 4 in each of the 2 designated release areas consisting of 3-inch slotted PVC pipe. The wells in the #1 area were set as follows: 1-1 was set to 40 feet below grade surface (bgs), 1-2 was set to 65 feet bgs, 1-3 was set to 60 feet bgs, 1-4 was set to 55 feet bgs. The wells in the #2 area were set as follows: 2-1 was set to 35 feet bgs, 2-2 was set to 35 feet bgs, 2-3 was set to 35 feet bgs, and 2-4 was set to 35 feet bgs. Figure 3, Treatment Well Map, displays all 12 of the treatment wells installed, 6 at each site.

Jackson B #57
Closure Report
nAB1900435050



October 31, 2023

Treatment of the impacted soils was conducted on July 14, 2019. This consisted of mixing RT Remediact with fresh water to create the prescribed mixture ratio provided by the manufacturer at a 1:10 ratio. The total mixed volume was 1650 gallons, 150 gallons RT Remediact and 1500 gallons of fresh water. Treatments were spread over 3 days, with 550 gallons gravitationally injected on each day between all 8 treatment wells.

On October 15 and 16, 2019, confirmation sampling was conducted using the guidelines from the approved work plan. During the confirmation sampling, it was determined rather quickly that the impacted soils hadn't been fully remediated. It was also discovered that the soils at deeper depths had a distinct smell of the remediation product where the soils above did not display that distinct odor. It was determined to turn the confirmation sample bore holes into additional treatment wells, but to set them at shallower depths. In the #1 Area the 1-1C bore hole was drilled between the 1-1 and 1-3 initial sample points, and the 1-2C bore hole was drilled between the 1-2 and 1-4 initial sample points. Area #2 followed the same pattern with 2-1C being between 2-1 and 2-3, and 2-2C being between 2-2 and 2-4. 1-1C was set to 45 feet bgs, 1-2C was set to 25 feet bgs, 2-1C was set to 20 feet bgs, and 2-2C was set to 20 feet bgs. Due to the number of treatment wells in each area and the active flow lines, a request to reduce the number of confirmation borings down to one (1) was approved by NMOCD on November 6, 2019.

Further treatment occurred March 16-18, 2020, following the same methods and steps as in July 2019, with 1500 gallons of the RT Remediation mixture being applied over 3 days. This consisted of gravitational flow of the mixture down all 12 bore holes with 550 gallons used during each application. On October 26, 2020, after delay due to Covid-19 risks and restrictions, a core rig was contracted to assist with collection of confirmation samples. As displayed in the Sample Results Table below, impacts remained in the soils which extended the remedial timeline required.

In 2021, due to new internal division guidance, this project was moved under the supervision of an environmental consultant, GHD. With two (2) treatments already completed for the site in 2019 and 2020, additional treatment of the wells occurred August 23-25, 2021. The treatment was completed in the same manner as previously completed, with 1650 gallons of RT Remediact mixture applied gravitationally to the 12 treatment wells over a 3-day period. On January 6, 2022, GHD and a contracted core rig performed confirmation sampling which encountered similar results as the previously sampling events indicating that impacts remained above closure criteria. These results are included in the Sample Results Table.

In 2022, GHD suggested an alternate strategy for treating the site which correlated with other bioremediation/vent well projects which were under their supervision. This consisted of injecting the wells with RT Remediact every 2 weeks for 12 weeks, totaling six separate treatments. The site treatment began on August 22, 2022, continuing through to October 24, 2022. The evolved treatment included the injection of 440 gallons of mixed RT Remediact (40 gallons) and fresh water (400 gallons) for all 6 treatment events. On November 15, 2022, GHD performed confirmation sampling, advancing 2 borings collecting samples in 5-foot intervals, with laboratory results indicating that closure criteria were still unmet.

Under new guidance from within GHD, a plan to continue remedial injection with RT Remediact was modified to include treatment on a 3-week schedule versus the 2-week schedule previously enacted. The 3-week schedule called for the same volume, 440 gallons of the mixture (RT Remediact and fresh water), to be injected gravitationally over 18 weeks for 6 separate

energy opportunity growth

Jackson B #57
Closure Report
nAB1900435050



October 31, 2023

treatments. On April 19, 2023, GHD performed further confirmation sampling. With a contracted core rig, 2 borings were advanced collecting samples in 5-foot intervals with one boring completed in each area. Laboratory results indicated that the east area (Area #1) was almost at the criteria for closure with only the CB-1A 35' sample being above criteria. The west area (Area #2) still showed further impacts requiring bioremediation.

Based on the amount of time the RT Remediate had been active within the soil, it was determined to attempt using a different microbial strain in the next round of injection. The basis behind the change was that introduction of a new microbial strain from a different manufacturer may break the carbon chains that had built up a tolerance or were otherwise unaffected by RT Remediate. A readily available alternative strain, Micro-Blaze (MB), was used for injection into the treatment wells. The injection reverted to the previous method of every 2 weeks for 12 weeks. Since the manufacturer recommendation for MB is a 1:10 ratio of MB to fresh water, treatment again consisted of 440 gallons of mixed product being injected during each of the 6 separate treatment applications. Treatment activities began on June 26, 2023 and were completed on September 4, 2023.

III. Confirmation Results

On September 27, 2023, GHD along with a contracted core rig advanced two soil borings (CB-1B & CB-2B) for the purpose of collecting confirmation soil samples within the bioremediation areas. Samples were collected in 5-foot intervals beginning at 10 feet below ground surface (bgs) at both sample locations. CB-1B was completed in the east remediation area (Area #1) and CB-2B was completed in the west remediation area (Area #2). CB-1B was advanced to a depth of 75 feet bgs and CB-2B was advanced to a depth of 50 feet bgs. All soil samples were analyzed for BTEX by EPA Method 8021B, TPH by EPA Method 8015B Modified, and chloride by EPA Method 300 by a third-party laboratory, Envirotech Inc. in Farmington, New Mexico.

All sample results returned below Table 1 Closure Criteria for a site with groundwater depth greater than 100 feet. Figure 2, Confirmation Sample Map, depicts the locations of the confirmation borings. Analytical results are provided in Table 1 with the laboratory reports included in Appendix B.

IV. Conclusion

Site characterization, delineation, and remediation have been completed for Incident nAB1900435050 in accordance with applicable NMOCD guidance and regulations. Based upon the supporting documentation which exhibits that soil impact concentrations are below Table 1 closure criteria, EOG respectfully requests closure of nAB1900435050.

If you have any questions or comments concerning this Closure Report, please do not hesitate to contact me at (575) 748-1471.

Chase Settle

Chase Settle
S&E Rep Sr
Chase_Settle@eogresources.com

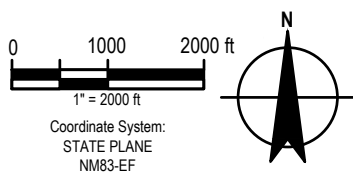
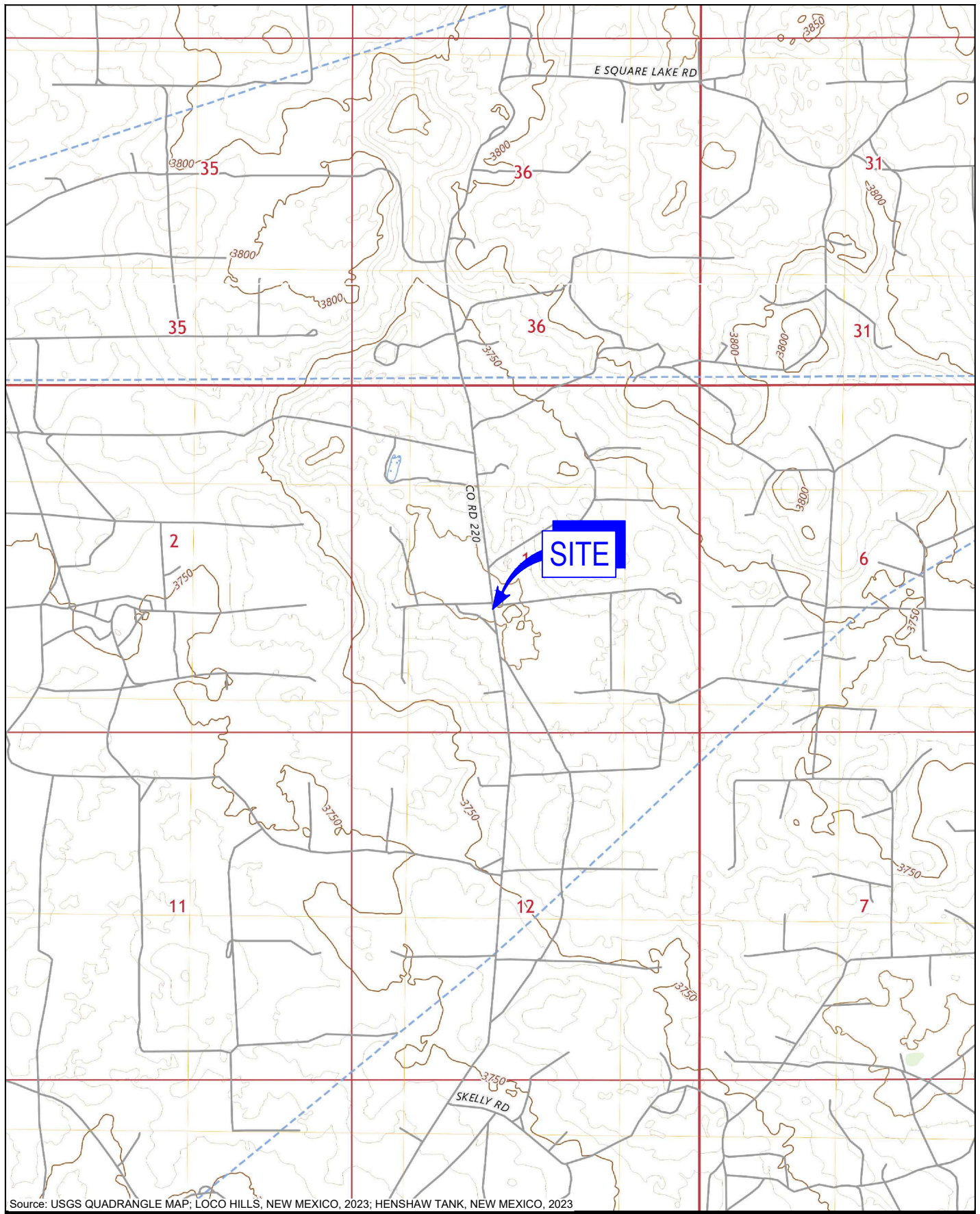
Jackson B #57
Closure Report
nAB1900435050



October 31, 2023

Figure 1

Site Map



EOG RESOURCES
EDDY COUNTY, NEW MEXICO
JACKSON B #57

Project No. 12587914
Date October 2023

SITE LOCATION MAP

FIGURE 1

Jackson B #57
Closure Report
nAB1900435050



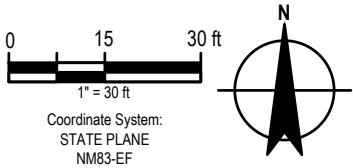
October 31, 2023

Figure 2

Confirmation Sample Map



LEGEND
● CONFIRMATION SAMPLE LOCATION



EOG RESOURCES
EDDY COUNTY, NEW MEXICO
JACKSON B #57

Project No. 12587914
Date October 2023

SITE DETAILS MAP

FIGURE 2

Jackson B #57
Closure Report
nAB1900435050



October 31, 2023

Figure 3

Treatment Well Map

Jackson B #57

Treatment Well/ Sample Boring Map

Legend

- Area 1
- Area 2
- Treatment Well



Survey
Google Earth

Jackson B #57
Closure Report
nAB1900435050



October 31, 2023

Table 1

Sample Results Table

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	Total Petroleum Hydrocarbons (TPH)					Chloride
								GRO(C6-C10)	DRO(C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
			Table I Closure Criteria for Soils >100 ft Depth to Groundwater 19.15.29 NMAC										
10 mg/kg	---	---	---	50 mg/kg	---	1,000 mg/kg	---	2,500 mg/kg	20,000 mg/kg				
Confirmation Soil Samples													
CB-1B	9/27/2023	10	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	<20
CB-1B	9/27/2023	15	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	45.4
CB-1B	9/27/2023	20	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	54.5
CB-1B	9/27/2023	25	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	<20
CB-1B	9/27/2023	30	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	22.4
CB-1B	9/27/2023	35	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	<20
CB-1B	9/27/2023	40	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	<20
CB-1B	9/27/2023	45	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	<20
CB-1B	9/27/2023	50	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	<20
CB-1B	9/27/2023	55	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	<20
CB-1B	9/27/2023	60	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	<20
CB-1B	9/27/2023	65	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	<20
CB-1B	9/27/2023	70	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	<20
CB-1B	9/27/2023	75	<0.025	<0.025	<0.025	<0.025	<0.025	<20	286	286	352	638	<20
CB-2B	9/27/2023	10	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	197
CB-2B	9/27/2023	15	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	91.7
CB-2B	9/27/2023	20	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	43
CB-2B	9/27/2023	25	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	598
CB-2B	9/27/2023	30	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	5070
CB-2B	9/27/2023	35	<0.025	0.422	1.04	1.44	2.90	24.5	298	322.5	89.6	412	5500
CB-2B	9/27/2023	40	0.045	1.11	1.85	2.33	5.34	67.9	215	282.9	60.3	343	7300
CB-2B	9/27/2023	45	0.0765	0.0905	0.035	<0.025	0.20	<20	<25	<25	<50	<50	9260
CB-2B	9/27/2023	50	0.145	0.0995	<0.025	<0.025	0.2445	<20	<25	<25	<50	<50	1380
CB-1A	4/19/2023	10	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	97
CB-1A	4/19/2023	15	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	60.9
CB-1A	4/19/2023	20	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	44.2
CB-1A	4/19/2023	25	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	38.7
CB-1A	4/19/2023	30	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	23.9
CB-1A	4/19/2023	35	<0.025	0.815	2.65	3.4	6.865	114	1730	1844	<50	1844	<20
CB-1A	4/19/2023	40	<0.025	0.0895	0.286	0.376	0.7515	28.8	429	457.8	12	469.8	<20
CB-1A	4/19/2023	45	<0.025	<0.025	<0.025	<0.025	<0.025	<20	90.5	90.5	<50	90.5	<20
CB-1A	4/19/2023	50	<0.025	<0.025	<0.025	<0.025	<0.025	<20	57.7	57.7	<20	57.7	<20
CB-1A	4/19/2023	55	<0.025	<0.025	<0.025	<0.025	<0.025	<20	26.7	26.7	<50	26.7	<20
CB-1A	4/19/2023	60	<0.025	<0.025	<0.025	<0.025	<0.025	<20	35.3	35.3	<50	35.3	<20
CB-1A	4/19/2023	65	<0.025	<0.025	<0.025	<0.025	<0.025	<20	26.6	26.6	<50	26.6	<20
CB-1A	4/19/2023	70	<0.025	<0.025	<0.025	<0.025	<0.025	<20	39.2	39.2	<50	39.2	<20
CB-1A	4/19/2023	75	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	<20
CB-2A	4/19/2023	10	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	240

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	Total Petroleum Hydrocarbons (TPH)					Chloride
								GRO(C6-C10)	DRO(C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
			Table I Closure Criteria for Soils >100 ft Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---		1,000 mg/kg	---	2,500 mg/kg	20,000 mg/kg
CB-2A	4/19/2023	15	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	82.7
CB-2A	4/19/2023	20	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	137
CB-2A	4/19/2023	25	<0.025	<0.025	<0.025	<0.025	<0.025	<20	29.2	29.2	<50	29.2	79.4
CB-2A	4/19/2023	30	<0.025	0.375	0.896	1.11	2.38	43.8	949	992.8	316	1308.8	61.9
CB-2A	4/19/2023	35	0.455	8.51	13.4	15.2	37.57	370	3710	4080	1120	5200	47.2
CB-2A	4/19/2023	40	0.9	14	19.5	22.5	56.9	588	5310	5898	<50	5898	45.9
CB-2A	4/19/2023	45	0.913	10.4	11.9	13.3	36.51	381	4230	4611	<50	4611	318
CB-2A	4/19/2023	50	10.6	47.9	38.5	39.3	136.3	766	6850	7616	<50	7616	4500
CB-1	11/15/2022	10	<0.025	0.0277	<0.025	<0.025	0.0277	<20	84	84	<50	84	242
CB-1	11/15/2022	15	<0.025	<0.025	<0.025	<0.025	<0.025	<20	107	107	<50	107	123
CB-1	11/15/2022	20	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	70.1
CB-1	11/15/2022	25	0.254	4.32	6.52	9.24	20.33	142	1660	1802	522	2324	95.7
CB-1	11/15/2022	30	2.78	27.4	28.2	40.2	98.58	527	6370	6897	2140	9037	40.8
CB-1	11/15/2022	35	2.78	24.4	25	37.9	90.08	632	4930	5562	1680	7242	<20
CB-1	11/15/2022	40	2.53	23.7	30.6	44.6	101.43	689	5650	6339	1780	8119	<20
CB-1	11/15/2022	45	1.25	12.5	12.1	14.7	40.55	244	2320	2564	775	3339	<20
CB-1	11/15/2022	50	0.959	8.11	7.56	9.19	25.819	173	1690	1863	538	2401	<20
CB-1	11/15/2022	55	0.49	5.47	5.79	7.25	19	131	1230	1361	419	1780	<20
CB-1	11/15/2022	60	0.352	5.08	5.97	7.49	18.892	130	1020	1150	353	1503	<20
CB-1	11/15/2022	65	<0.025	0.167	0.281	0.423	0.871	<20	187	187	72.4	259.4	<20
CB-1	11/15/2022	70	<0.025	0.0414	0.138	0.189	0.3684	<20	256	256	94.6	350.6	<20
CB-1	11/15/2022	75	<0.025	0.0258	0.0932	0.147	0.266	<20	288	288	119	407	<20
CB-2	11/15/2022	10	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	1,890
CB-2	11/15/2022	15	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	1,230
CB-2	11/15/2022	20	<0.025	<0.025	<0.025	<0.025	<0.025	<20	<25	<25	<50	<50	3,740
CB-2	11/15/2022	25	16	79.3	63.8	74.5	233.6	1200	8700	9900	2840	12740	739
CB-2	11/15/2022	30	2.65	26	31.9	42.3	102.85	710	5450	6160	1780	7940	1,120
CB-2	11/15/2022	35	5.21	37.1	36.9	47.1	126.31	801	5800	6601	1900	8501	1,520
CB-2	11/15/2022	40	4.12	24.8	19.7	24.2	72.82	423	3060	3483	1410	4893	6,280
CB-2	11/15/2022	45	15.9	61.3	52.9	63.1	193.2	1040	11300	12340	5050	17390	525
CB-2	11/15/2022	50	7.24	34.1	27.4	31.4	100.14	524	5280	5804	2790	8594	188
A1	1/6/2022	10	3.3	64	59	68	194.3	1200	3800	5000	1200	6200	86
A1	1/6/2022	15	5.2	68	56	61	190.2	1100	3700	4800	1100	5900	73
A1	1/6/2022	20	6.1	96	89	97	288.1	1800	6600	8400	2200	10600	79
A1	1/6/2022	25	14	99	68	67	248	1400	4500	5900	1600	7500	2000
A1	1/6/2022	30	2.9	68	61	64	195.9	1100	3900	5000	1400	6400	2000
A1	1/6/2022	35	5.5	82	66	70	223.5	1300	4800	6100	1700	7800	840
A1	1/6/2022	40	3.1	61	52	52	168.1	950	3200	4150	1200	5350	1100
A1	1/6/2022	45	52	170	95	93	410	2500	4300	6800	1400	8200	<60

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	Total Petroleum Hydrocarbons (TPH)					Chloride
								GRO(C6-C10)	DRO(C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
			Table I Closure Criteria for Soils >100 ft Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---		1,000 mg/kg	---	2,500 mg/kg	20,000 mg/kg
A1	1/6/2022	75	0.22	4.1	8.3	11	23.62	200	1700	1900	620	2520	210
A2	1/6/2022	10	<0.12	<0.24	<0.24	<0.48	<0.48	<24	13	13	<43	13	18000
A2	1/6/2022	15	0.22	1.1	1.2	15	17.52	290	1900	2190	670	2860	4500
A2	1/6/2022	20	0.12	0.53	0.24	1.7	2.59	54	1300	1354	640	1994	8500
A2	1/6/2022	25	2.0	70	55	65	192	1200	3000	4200	980	5180	8900
A2	1/6/2022	30	2.2	71	62	74	209.2	1200	4100	5300	1400	6700	8500
A2	1/6/2022	35	2.4	39	40	43	124.4	940	3400	4340	1200	5540	9500
A2	1/6/2022	40	51	190	110	110	461	2600	8600	11200	3100	14300	12000
A2	1/6/2022	45	220	590	270	290	1370	6700	18000	24700	7300	32000	9600
A2	1/6/2022	50	1.0	20	21	25	67	540	1100	1640	600	2240	74
EOG Sample Results													
Confirmation Sample Results													
1C2-10'	10/26/2020	10	20	110	74	72	276	1800	3800	5600	1800	7400	2800
1C2-15'	10/26/2020	15	30	210	150	140	530	2800	7000	9800	3300	13100	2300
1C2-20'	10/26/2020	20	9	89	63	100	261	2200	6500	8700	5900	14600	840
1C2-25'	10/26/2020	25	4.4	45	39	55	143.4	1100	8100	9200	4300	13500	3200
1C2-30'	10/26/2020	30	95	310	160	160	725	3900	7600	11500	3500	15000	2300
1C2-35'	10/26/2020	35	130	450	230	210	1020	5100	11000	16100	8000	24100	3100
1C2-40'	10/26/2020	40	64	260	160	160	644	3800	8000	11800	4700	16500	1500
1C2-45'	10/26/2020	45	8	48	36	36	128	790	1300	2090	650	2740	ND
1C2-50'	10/26/2020	50	7.8	52	33	40	132.8	1100	1600	2700	680	3380	ND
1C2-55'	10/26/2020	55	16	80	54	58	208	1800	3000	4800	1400	6200	ND
1C2-60'	10/26/2020	60	13	79	56	59	207	2100	2600	4700	1300	6000	61
1C2-65'	10/26/2020	65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1C2-70'	10/26/2020	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1C2-75'	10/26/2020	75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2C2-10'	10/26/2020	10	1.1	15	8.2	23	47.3	600	5200	5800	2300	8100	350
2C2-15'	10/26/2020	15	0.99	22	14	27	63.99	650	4900	5550	2300	7850	110
2C2-20'	10/26/2020	20	0.62	12	7.4	24	44.02	700	5100	5800	2700	8500	1500
2C2-25'	10/26/2020	25	0.53	7.7	8.8	13	30.03	350	2600	2950	1600	4550	4400
2C2-30'	10/26/2020	30	18	140	92	94	344	2300	5500	7800	2700	10500	6400
2C2-35'	10/26/2020	35	0.74	13	13	14	40.74	310	960	1270	720	1990	13000
2C2-40'	10/26/2020	40	7.8	47	35	35	124.8	820	2100	2920	1100	4020	15000
2C2-50'	10/26/2020	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-1C-10'	10/19/2019	10	32.5	165	101	108	406.5	1630	2610	4240	344	4584	224
1-1C-15'	10/19/2019	15	103	345	183	180	811	3320	5100	8420	657	9077	1540
1-1C-20'	10/19/2019	20	49.4	164	95.1	97.3	405.8	3060	5580	8640	887	9527	96
1-1C-25'	10/19/2019	25	55.7	159	88.8	91	394.5	1850	3330	5180	491	5671	12800
1-1C-30'	10/19/2019	30	90.1	258	141	143	632.1	1160	1270	2430	191	2621	704
1-1C-35'	10/19/2019	35	8.57	41.1	37.4	43.7	130.77	322	942	1264	106	1370	608
1-1C-40'	10/19/2019	40	32.6	142	86.5	105	366.1	3050	7340	10390	1140	11530	1440

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	Total Petroleum Hydrocarbons (TPH)					Chloride
								GRO(C6-C10)	DRO(C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
			Table I Closure Criteria for Soils >100 ft Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---		1,000 mg/kg	---	2,500 mg/kg	20,000 mg/kg
1-1C-45'	10/19/2019	45	16.9	81.9	58	63.8	220.6	1480	3000	4480	355	4835	736
1-1C-50'	10/19/2019	50	38.5	131	81	83.5	334	2130	3810	5940	575	6515	5040
1-1C-55'	10/19/2019	55	3.77	16.6	13.4	14.7	48.47	146	743	889	107	996	416
1-1C-60'	10/19/2019	60	58.8	202	121	125	506.8	6260	11000	17260	1760	19020	32
1-1C-75'	10/19/2019	75	0.558	0.914	0.591	0.779	2.842	20.9	250	270.9	45	315.9	160
1-2C-10'	10/19/2019	10	114	327	168	159	768	6690	10100	16790	1610	18400	1780
1-2C-15'	10/19/2019	15	117	337	182	174	810	5080	8280	13360	1330	14690	1650
1-2C-20'	10/19/2019	20	33.1	150	98.5	103	384.6	2850	5510	8360	847	9207	208
1-2C-25'	10/19/2019	25	42.8	125	68.9	68.6	305.3	1160	1730	2890	213	3103	2800
1-2C-30'	10/19/2019	30	97.8	304	168	171	740.8	5710	8870	14580	1410	15990	624
1-2C-35'	10/19/2019	35	136	399	212	205	952	7910	11900	19810	1950	21760	224
1-2C-40'	10/19/2019	40	93.5	264	165	176	698.5	4350	7000	11350	1030	12380	256
1-2C-45'	10/19/2019	45	15.2	43.8	30.1	33.1	122.2	287	716	1003	107	1110	208
1-2C-50'	10/19/2019	50	112	307	188	197	804	5040	7980	13020	1220	14240	32
1-2C-55'	10/19/2019	55	66.4	203	132	150	551.4	2790	4870	7660	739	8399	32
1-2C-60'	10/19/2019	60	0.633	0.633	0.17	0.181	1.617	ND	ND	ND	ND	ND	16
1-2C-65'	10/19/2019	65	0.48	0.668	0.193	ND	1.47	ND	ND	ND	ND	ND	32
1-2C-70'	10/19/2019	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	32
1-2C-75'	10/19/2019	75	0.108	0.265	0.175	0.197	0.745	ND	ND	ND	ND	ND	32
2-1C-10'	10/19/2019	10	9.83	78.5	74.8	102	265.13	2350	5780	8130	834	8964	11600
2-1C-15'	10/19/2019	15	16.9	75.8	56.3	65.5	214.5	1790	3460	5250	511	5761	2280
2-1C-20'	10/19/2019	20	4.31	19	17	20.1	60.41	402	1720	2122	233	2355	10000
2-1C-25'	10/19/2019	25	10.1	44.7	36.1	41.2	132.1	546	1680	2226	201	2427	13200
2-1C-30'	10/19/2019	30	0.091	0.156	0.09	ND	0.337	ND	ND	ND	ND	ND	4880
2-1C-35'	10/19/2019	35	0.183	0.372	0.136	ND	0.793	ND	ND	ND	ND	ND	14600
2-1C-40'	10/19/2019	40	0.816	2.85	2.67	3.18	9.516	57.7	281	338.7	30.4	369.1	16400
2-1C-45'	10/19/2019	45	0.054	ND	ND	ND	0.054	ND	ND	ND	ND	ND	9760
2-1C-50'	10/19/2019	50	0.087	0.092	ND	ND	0.179	ND	ND	ND	ND	ND	64
2-2C-10'	10/19/2019	10	1.16	15.4	20	25.1	61.66	690	2070	2760	222	2982	15600
2-2C-15'	10/19/2019	15	4.78	34.4	29.9	34.7	103.78	1090	4110	5200	603	5803	8560
2-2C-20'	10/19/2019	20	2.14	18.8	19.3	23.9	64.14	835	4000	4835	594	5429	9060
#1 Sidewalls	1/29/2019	0-6'	0.126	0.243	0.154	0.179	0.701	<10.0	20.1	20.1	<10.0	20.1	48
#2 Sidewalls	1/29/2019	0-6'	<0.050	0.085	0.073	<0.150	<0.300	<10.0	17.4	17.4	<10.0	17.4	176
Initial Sample Results													
#1-1-20	6/25/2019	20	98.5	312	181	181	772.5	3630	8640	12270	1400	13670	9060
#1-1-25	6/25/2019	25	38.1	131	83.1	89.8	342	1690	6570	8260	1180	9440	6930
#1-1-35	6/25/2019	35	28.3	113	79	87.8	308.1	1780	6490	8270	1120	9390	6660
#1-1-40	6/25/2019	40	11.1	54.4	50.3	62.2	178	1320	7190	8510	1160	9670	2480
#1-2-55	6/25/2019	55	8.88	46.7	36.3	32.1	123.98	867	2130	2997	250	3247	16
#1-2-60	6/25/2019	60	87.8	348	267	226	928.8	5880	12000	17880	2100	19980	64
#1-2-65	6/25/2019	65	0.354	0.61	0.128	ND	1.092	ND	78.4	78.4	43.8	122.2	48

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	Total Petroleum Hydrocarbons (TPH)					Chloride
								GRO(C6-C10)	DRO(C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO	
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
			Table I Closure Criteria for Soils >100 ft Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---		1,000 mg/kg	---	2,500 mg/kg	20,000 mg/kg
#1-3-40	6/25/2019	40	26.4	113	90.1	74.9	304.4	2140	5050	7190	757	7947	352
#1-3-50	6/25/2019	50	54.2	194	146	128	522.2	3290	6470	9760	1100	10860	48
#1-3-60	6/25/2019	60	0.109	0.129	ND	ND	0.238	10.8	19.1	29.9	24.5	54.4	16
#1-4-55	6/25/2019	55	0.313	0.51	0.182	0.167	1.172	ND	19.5	19.5	ND	19.5	32
#2-1-20	6/25/2019	20	4.93	22	16.1	18.1	61.13	419	1290	1709	218	1927	20000
#2-1-25	6/25/2019	25	46.8	220	145	158	569.8	4920	8860	13780	1390	15170	10600
#2-1-30	6/25/2019	30	ND	0.066	0.07	ND	0.136	ND	11.2	11.2	ND	11.2	24000
#2-1-35	6/25/2019	35	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13400
#2-2-30	6/26/2019	30	20.1	98.9	69.4	74.9	263.3	1920	4470	6390	683	7073	17400
#2-2-35	6/26/2019	35	ND	0.635	1.95	2.87	5.455	94.8	568	662.8	82.5	745.3	14400
#2-2-40	6/26/2019	40	0.268	1.47	2.44	3.23	7.408	46.6	310	356.6	54.3	410.9	18400
#2-3-30	6/26/2019	30	0.106	0.939	1.31	1.72	4.075	48.7	1060	1108.7	234	1342.7	7600
#2-3-35	6/26/2019	35	0.269	1.97	1.8	2.19	6.229	39.7	205	244.7	40.5	285.2	14800
#2-4-30	6/26/2019	30	1.33	12.2	13.4	17.1	44.03	397	2850	3247	469	3716	21600
#2-4-35	6/26/2019	35	ND	0.715	1.42	1.98	4.115	38.7	284	322.7	42	364.7	20600
#2-4-40	6/26/2019	40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20000
#1-7'	1/29/2019	7'	92.7	440	277	293	1100	9720	15600	25320	2230	27550	160
#1-9'	1/29/2019	9'	159	516	292	301	1270	7250	11900	19150	1790	20940	3280
#1-11'	1/29/2019	11'	154	424	226	229	1030	5310	8520	13830	1310	15140	8260
#1-13'	1/29/2019	13'	94.4	347	210	216	867	4700	8200	12900	1200	14100	4720
#1-15'	1/29/2019	15'	183	491	265	264	1200	6990	10900	17890	1660	19550	8000
#2-7'	1/29/2019	7'	53.9	228	139	146	567	4460	7860	12320	1170	13490	25600
#2-9'	1/29/2019	9'	44.1	185	119	125	473	3730	7300	11030	894	11924	24000
#2-11'	1/29/2019	11'	21.7	109	78	83.9	292	1810	3970	5780	554	6334	26400
#2-13'	1/29/2019	13'	21.8	101	72.1	77.6	273	1810	4300	6110	526	6636	26800
#2-15'	1/29/2019	15'	150	439	243	256	1090	8570	13000	21570	1930	23500	8800

Notes:

1. Values reported in mg/kg
2. < = Value Less than Reporting Limit (RL)
3. Bold Indicates Analyte Detected
4. BTEX analyses by EPA Method SW 8021B.

5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil

7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table 1 Closure Criteria for the site.

8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table 1 Closure Criteria for the site (Surface to 4 Feet Below Grade).

9. J - the target analytes was positively identified below the quantitation limit and above the detection limit.

B-DH-2 Sample Point Excavated

Jackson B #57
Closure Report
nAB1900435050



October 31, 2023

Appendix A

C-141 Forms

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

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

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

Incident ID	NAB1900435050
District RP	2RP-5149
Facility ID	
Application ID	pAB1900432112

Release Notification

Responsible Party

Responsible Party EOG Y Resources, Inc.	OGRID 25575
Contact Name Chase Settle	Contact Telephone 575-748-4171
Contact email chase_settle@eogresources.com	Incident # (assigned by OCD)
Contact mailing address 104 S. 4 th	

Location of Release Source

Latitude 32.8623428

Longitude -103.9330673

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Jackson B #57	Site Type Facility
Date Release Discovered 12/1/18	API# 30-015-41003

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

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 2	Volume Recovered (bbls) 2
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 6	Volume Recovered (bbls) 5
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Lease Operator found fluid on surface near roadway. Traced back to source and found it was coming from underground, most likely cased crossing. Shut off all wells utilizing crossing and isolated flowlines.



State of New Mexico
Oil Conservation Division

Incident ID	NAB1900435050
District RP	2RP-5149
Facility ID	
Application ID	pAB1900432112

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

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Chase Settle	Title: Rep Safety & Environmental II
Signature: 	Date: 12/13/2018
email: chase_settle@eogresources.com	Telephone: 575-748-4171
OCD Only	
Received by: 	Date: 01/04/2019

Form C-141

Page 3

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-5149
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	361 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

Form C-141

Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-5149
Facility ID	
Application ID	

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

Printed Name: Chase Settle Title: Rep Safety and Environmental IISignature: *Chase Settle* Date: 02/27/2019email: Chase_Settle@eogresources.com Telephone: 575-748-1471**OCD Only**Received by: Robert Hamlet Date: 3/1/2019

Form C-141

Page 5

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	2RP-5149
Facility ID	
Application ID	

Remediation Plan


Remediation Plan Checklist: Each of the following items must be included in the plan.

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)


Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Chase Settle Title: Rep Safety and Environmental II
 Signature:  Date: 02/27/2019
 email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: Robert Hamlet Date: 3/1/2019
☒ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved
 Signature:  Date: 3/1/2019

Incident ID	NAB1900435050
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: 10/31/2023
email: Chase_Settle@eogresources.com Telephone: 575-748-1471

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Jackson B #57
Closure Report
nAB1900435050



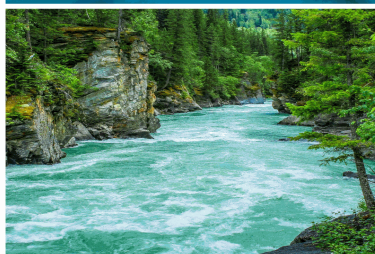
October 31, 2023

Appendix B

Analytical Reports

Report to:

Moshghan Mansoori



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

GHD

Project Name: 12566090/ Jackson B #57

Work Order: E309215

Job Number: 19034-0001

Received: 9/28/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/29/23

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 9/29/23

Moshghan Mansoori
6121 Indian School Rd. NE #200
Albuquerque, NM 87110



Project Name: 12566090/ Jackson B #57
Workorder: E309215
Date Received: 9/28/2023 8:15:00AM

Moshghan Mansoori,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/28/2023 8:15:00AM, under the Project Name: 12566090/ Jackson B #57.

The analytical test results summarized in this report with the Project Name: 12566090/ Jackson B #57 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
CB-1B (10ft)	6
CB-1B (15ft)	7
CB-1B (20ft)	8
CB-1B (25ft)	9
CB-1B (30ft)	10
CB-1B (35ft)	11
CB-1B (40ft)	12
CB-1B (45ft)	13
CB-1B (50ft)	14
CB-1B (55ft)	15
CB-1B (60ft)	16
CB-1B (65ft)	17
CB-1B (70ft)	18
CB-1B (75ft)	19
CB-2B (10ft)	20
CB-2B (15ft)	21
CB-2B (20ft)	22
CB-2B (25ft)	23
CB-2B (30ft)	24
CB-2B (35ft)	25

Table of Contents (continued)

CB-2B (40ft)	26
CB-2B (45ft)	27
CB-2B (50ft)	28
QC Summary Data	29
QC - Volatile Organic Compounds by EPA 8260B	29
QC - Volatile Organics by EPA 8021B	30
QC - Nonhalogenated Organics by EPA 8015D - GRO	31
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	33
QC - Anions by EPA 300.0/9056A	35
Definitions and Notes	37
Chain of Custody etc.	38

Sample Summary

GHD	Project Name:	12566090/ Jackson B #57	Reported:
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	09/29/23 15:51

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CB-1B (10ft)	E309215-01A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (15ft)	E309215-02A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (20ft)	E309215-03A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (25ft)	E309215-04A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (30ft)	E309215-05A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (35ft)	E309215-06A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (40ft)	E309215-07A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (45ft)	E309215-08A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (50ft)	E309215-09A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (55ft)	E309215-10A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (60ft)	E309215-11A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (65ft)	E309215-12A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (70ft)	E309215-13A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-1B (75ft)	E309215-14A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-2B (10ft)	E309215-15A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-2B (15ft)	E309215-16A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-2B (20ft)	E309215-17A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-2B (25ft)	E309215-18A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-2B (30ft)	E309215-19A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-2B (35ft)	E309215-20A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-2B (40ft)	E309215-21A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-2B (45ft)	E309215-22A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.
CB-2B (50ft)	E309215-23A	Soil	09/27/23	09/28/23	Glass Jar, 2 oz.



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

CB-1B (10ft)

E309215-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	ND	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
Surrogate: 4-Bromochlorobenzene-PID	97.0 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.3 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/28/23	
Surrogate: n-Nonane	86.9 %	50-200		09/28/23	09/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2339081	
Chloride	ND	20.0	1	09/28/23	09/28/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 9/29/2023 3:51:35PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-1B (15ft)

E309215-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	ND	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.8 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.7 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/28/23	
<i>Surrogate: n-Nonane</i>	86.7 %	50-200		09/28/23	09/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2339081	
Chloride	45.4	20.0	1	09/28/23	09/28/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 9/29/2023 3:51:35PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-1B (20ft)

E309215-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	ND	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.9 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.6 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/28/23	
<i>Surrogate: n-Nonane</i>	85.9 %	50-200		09/28/23	09/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2339081	
Chloride	54.5	20.0	1	09/28/23	09/29/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 9/29/2023 3:51:35PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-1B (25ft)

E309215-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	ND	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.3 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.6 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/28/23	
<i>Surrogate: n-Nonane</i>	82.9 %	50-200		09/28/23	09/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2339081	
Chloride	ND	20.0	1	09/28/23	09/29/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 9/29/2023 3:51:35PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-1B (30ft)

E309215-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	ND	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.8 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.5 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/28/23	
<i>Surrogate: n-Nonane</i>	87.8 %	50-200		09/28/23	09/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2339081	
Chloride	22.4	20.0	1	09/28/23	09/29/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 9/29/2023 3:51:35PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-1B (35ft)

E309215-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/28/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/28/23	
Toluene	ND	0.0250	1	09/28/23	09/28/23	
o-Xylene	ND	0.0250	1	09/28/23	09/28/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/28/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/28/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.7 %	70-130		09/28/23	09/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/28/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.6 %	70-130		09/28/23	09/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/28/23	
<i>Surrogate: n-Nonane</i>	88.4 %	50-200		09/28/23	09/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2339081	
Chloride	ND	20.0	1	09/28/23	09/29/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

CB-1B (40ft)

E309215-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	ND	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
Surrogate: 4-Bromochlorobenzene-PID	95.7 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.4 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/28/23	
Surrogate: n-Nonane	93.2 %	50-200		09/28/23	09/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2339081	
Chloride	ND	20.0	1	09/28/23	09/29/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

CB-1B (45ft)
E309215-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	ND	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.0 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/28/23	
<i>Surrogate: n-Nonane</i>						
	92.2 %	50-200		09/28/23	09/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2339081	
Chloride	ND	20.0	1	09/28/23	09/29/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

CB-1B (50ft)

E309215-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	ND	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
Surrogate: 4-Bromochlorobenzene-PID	95.5 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.3 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/28/23	
Surrogate: n-Nonane	89.8 %	50-200		09/28/23	09/28/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2339081	
Chloride	ND	20.0	1	09/28/23	09/29/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 9/29/2023 3:51:35PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-1B (55ft)

E309215-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	ND	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.2 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.4 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/29/23	
<i>Surrogate: n-Nonane</i>	88.3 %	50-200		09/28/23	09/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2339081	
Chloride	ND	20.0	1	09/28/23	09/29/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 9/29/2023 3:51:35PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-1B (60ft)

E309215-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	ND	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.3 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.8 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/29/23	
<i>Surrogate: n-Nonane</i>	88.6 %	50-200		09/28/23	09/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2339081	
Chloride	ND	20.0	1	09/28/23	09/29/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 9/29/2023 3:51:35PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-1B (65ft)

E309215-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	ND	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.8 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.2 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/29/23	
<i>Surrogate: n-Nonane</i>	86.0 %	50-200		09/28/23	09/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2339081	
Chloride	ND	20.0	1	09/28/23	09/29/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 9/29/2023 3:51:35PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-1B (70ft)

E309215-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	ND	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.5 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.8 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/29/23	
<i>Surrogate: n-Nonane</i>	87.5 %	50-200		09/28/23	09/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2339081	
Chloride	ND	20.0	1	09/28/23	09/29/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 9/29/2023 3:51:35PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-1B (75ft)

E309215-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	ND	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.0 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.0 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	286	25.0	1	09/28/23	09/29/23	
Oil Range Organics (C28-C36)	352	50.0	1	09/28/23	09/29/23	
<i>Surrogate: n-Nonane</i>	87.7 %	50-200		09/28/23	09/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2339081	
Chloride	ND	20.0	1	09/28/23	09/29/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 9/29/2023 3:51:35PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-2B (10ft)

E309215-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	ND	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.4 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.4 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/29/23	
<i>Surrogate: n-Nonane</i>	90.0 %	50-200		09/28/23	09/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2339081	
Chloride	197	20.0	1	09/28/23	09/29/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 9/29/2023 3:51:35PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-2B (15ft)

E309215-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	ND	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
Surrogate: 4-Bromochlorobenzene-PID	96.8 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.3 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/29/23	
Surrogate: n-Nonane	90.1 %	50-200		09/28/23	09/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2339081	
Chloride	91.7	20.0	1	09/28/23	09/29/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 9/29/2023 3:51:35PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-2B (20ft)

E309215-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	ND	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.9 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	85.8 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/29/23	
<i>Surrogate: n-Nonane</i>	89.5 %	50-200		09/28/23	09/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2339081	
Chloride	43.0	20.0	1	09/28/23	09/29/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 9/29/2023 3:51:35PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-2B (25ft)

E309215-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	ND	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.6 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.1 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/29/23	
<i>Surrogate: n-Nonane</i>	91.6 %	50-200		09/28/23	09/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2339081	
Chloride	598	20.0	1	09/28/23	09/29/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 9/29/2023 3:51:35PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-2B (30ft)

E309215-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	ND	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
Surrogate: 4-Bromochlorobenzene-PID	97.1 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.4 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/29/23	
Surrogate: n-Nonane	85.5 %	50-200		09/28/23	09/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2339081	
Chloride	5070	40.0	2	09/28/23	09/29/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 9/29/2023 3:51:35PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-2B (35ft)

E309215-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Benzene	ND	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	1.04	0.0250	1	09/28/23	09/29/23	
Toluene	0.422	0.0250	1	09/28/23	09/29/23	
o-Xylene	0.475	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	0.962	0.0500	1	09/28/23	09/29/23	
Total Xylenes	1.44	0.0250	1	09/28/23	09/29/23	
Surrogate: 4-Bromochlorobenzene-PID	106 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2339052	
Gasoline Range Organics (C6-C10)	24.5	20.0	1	09/28/23	09/29/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.9 %	70-130		09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2339061	
Diesel Range Organics (C10-C28)	298	25.0	1	09/28/23	09/29/23	
Oil Range Organics (C28-C36)	89.6	50.0	1	09/28/23	09/29/23	
Surrogate: n-Nonane	89.8 %	50-200		09/28/23	09/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2339081	
Chloride	5500	40.0	2	09/28/23	09/29/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

CB-2B (40ft)

E309215-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2339055
Benzene	0.0450	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	1.85	0.0250	1	09/28/23	09/29/23	
Toluene	1.11	0.0250	1	09/28/23	09/29/23	
o-Xylene	0.771	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	1.56	0.0500	1	09/28/23	09/29/23	
Total Xylenes	2.33	0.0250	1	09/28/23	09/29/23	
Surrogate: Bromofluorobenzene		107 %	70-130	09/28/23	09/29/23	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130	09/28/23	09/29/23	
Surrogate: Toluene-d8		102 %	70-130	09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2339055
Gasoline Range Organics (C6-C10)	67.9	20.0	1	09/28/23	09/29/23	
Surrogate: Bromofluorobenzene		107 %	70-130	09/28/23	09/29/23	
Surrogate: 1,2-Dichloroethane-d4		94.6 %	70-130	09/28/23	09/29/23	
Surrogate: Toluene-d8		102 %	70-130	09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2339060
Diesel Range Organics (C10-C28)	215	25.0	1	09/28/23	09/28/23	
Oil Range Organics (C28-C36)	60.3	50.0	1	09/28/23	09/28/23	
Surrogate: n-Nonane		86.3 %	50-200	09/28/23	09/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2339068
Chloride	7300	100	5	09/28/23	09/29/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

CB-2B (45ft)

E309215-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2339055
Benzene	0.0765	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	0.0350	0.0250	1	09/28/23	09/29/23	
Toluene	0.0905	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
Surrogate: Bromofluorobenzene		110 %	70-130	09/28/23	09/29/23	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	09/28/23	09/29/23	
Surrogate: Toluene-d8		100 %	70-130	09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2339055
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
Surrogate: Bromofluorobenzene		110 %	70-130	09/28/23	09/29/23	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	09/28/23	09/29/23	
Surrogate: Toluene-d8		100 %	70-130	09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2339060
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/28/23	
Surrogate: n-Nonane		89.9 %	50-200	09/28/23	09/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2339068
Chloride	9260	400	20	09/28/23	09/29/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

CB-2B (50ft)

E309215-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2339055
Benzene	0.145	0.0250	1	09/28/23	09/29/23	
Ethylbenzene	ND	0.0250	1	09/28/23	09/29/23	
Toluene	0.0995	0.0250	1	09/28/23	09/29/23	
o-Xylene	ND	0.0250	1	09/28/23	09/29/23	
p,m-Xylene	ND	0.0500	1	09/28/23	09/29/23	
Total Xylenes	ND	0.0250	1	09/28/23	09/29/23	
Surrogate: Bromofluorobenzene		109 %	70-130	09/28/23	09/29/23	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	09/28/23	09/29/23	
Surrogate: Toluene-d8		101 %	70-130	09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2339055
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/28/23	09/29/23	
Surrogate: Bromofluorobenzene		109 %	70-130	09/28/23	09/29/23	
Surrogate: 1,2-Dichloroethane-d4		94.9 %	70-130	09/28/23	09/29/23	
Surrogate: Toluene-d8		101 %	70-130	09/28/23	09/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2339060
Diesel Range Organics (C10-C28)	ND	25.0	1	09/28/23	09/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/28/23	09/28/23	
Surrogate: n-Nonane		90.7 %	50-200	09/28/23	09/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2339068
Chloride	1380	20.0	1	09/28/23	09/29/23	



QC Summary Data

GHD	Project Name:	12566090/ Jackson B #57	Reported:
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2339055-BLK1)

Prepared: 09/28/23 Analyzed: 09/28/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.535		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			

LCS (2339055-BS1)

Prepared: 09/28/23 Analyzed: 09/28/23

Benzene	2.27	0.0250	2.50		90.7	70-130			
Ethylbenzene	2.35	0.0250	2.50		93.8	70-130			
Toluene	2.24	0.0250	2.50		89.6	70-130			
o-Xylene	2.26	0.0250	2.50		90.4	70-130			
p,m-Xylene	4.49	0.0500	5.00		89.8	70-130			
Total Xylenes	6.75	0.0250	7.50		90.0	70-130			
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

Matrix Spike (2339055-MS1)

Source: E309212-02

Prepared: 09/28/23 Analyzed: 09/28/23

Benzene	2.33	0.0250	2.50	ND	93.4	48-131			
Ethylbenzene	2.41	0.0250	2.50	ND	96.3	45-135			
Toluene	2.29	0.0250	2.50	ND	91.6	48-130			
o-Xylene	2.41	0.0250	2.50	ND	96.5	43-135			
p,m-Xylene	4.73	0.0500	5.00	ND	94.7	43-135			
Total Xylenes	7.15	0.0250	7.50	ND	95.3	43-135			
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			

Matrix Spike Dup (2339055-MSD1)

Source: E309212-02

Prepared: 09/28/23 Analyzed: 09/29/23

Benzene	2.34	0.0250	2.50	ND	93.4	48-131	0.0856	23	
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135	5.36	27	
Toluene	2.42	0.0250	2.50	ND	97.0	48-130	5.64	24	
o-Xylene	2.63	0.0250	2.50	ND	105	43-135	8.76	27	
p,m-Xylene	5.21	0.0500	5.00	ND	104	43-135	9.56	27	
Total Xylenes	7.84	0.0250	7.50	ND	105	43-135	9.29	27	
Surrogate: Bromofluorobenzene	0.536		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		94.0	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			



QC Summary Data

GHD	Project Name:	12566090/ Jackson B #57	Reported:
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2339052-BLK1)

Prepared: 09/28/23 Analyzed: 09/28/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			

LCS (2339052-BS1)

Prepared: 09/28/23 Analyzed: 09/28/23

Benzene	4.03	0.0250	5.00		80.5	70-130			
Ethylbenzene	3.98	0.0250	5.00		79.6	70-130			
Toluene	4.11	0.0250	5.00		82.2	70-130			
o-Xylene	4.15	0.0250	5.00		82.9	70-130			
p,m-Xylene	8.27	0.0500	10.0		82.7	70-130			
Total Xylenes	12.4	0.0250	15.0		82.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	70-130			

Matrix Spike (2339052-MS1)

Source: E309215-06

Prepared: 09/28/23 Analyzed: 09/28/23

Benzene	4.34	0.0250	5.00	ND	86.8	54-133			
Ethylbenzene	4.29	0.0250	5.00	ND	85.8	61-133			
Toluene	4.43	0.0250	5.00	ND	88.5	61-130			
o-Xylene	4.45	0.0250	5.00	ND	89.0	63-131			
p,m-Xylene	8.90	0.0500	10.0	ND	89.0	63-131			
Total Xylenes	13.3	0.0250	15.0	ND	89.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.6	70-130			

Matrix Spike Dup (2339052-MSD1)

Source: E309215-06

Prepared: 09/28/23 Analyzed: 09/29/23

Benzene	4.47	0.0250	5.00	ND	89.4	54-133	2.88	20	
Ethylbenzene	4.43	0.0250	5.00	ND	88.6	61-133	3.16	20	
Toluene	4.56	0.0250	5.00	ND	91.1	61-130	2.87	20	
o-Xylene	4.59	0.0250	5.00	ND	91.7	63-131	2.96	20	
p,m-Xylene	9.17	0.0500	10.0	ND	91.7	63-131	3.09	20	
Total Xylenes	13.8	0.0250	15.0	ND	91.7	63-131	3.04	20	
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.3	70-130			



QC Summary Data

GHD	Project Name:	12566090/ Jackson B #57	Reported:
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2339052-BLK1) Prepared: 09/28/23 Analyzed: 09/28/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.95		8.00		86.9	70-130			

LCS (2339052-BS2) Prepared: 09/28/23 Analyzed: 09/28/23

Gasoline Range Organics (C6-C10)	41.3	20.0	50.0		82.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.2	70-130			

Matrix Spike (2339052-MS2) Source: E309215-06 Prepared: 09/28/23 Analyzed: 09/29/23

Gasoline Range Organics (C6-C10)	41.7	20.0	50.0	ND	83.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.98		8.00		87.3	70-130			

Matrix Spike Dup (2339052-MSD2) Source: E309215-06 Prepared: 09/28/23 Analyzed: 09/29/23

Gasoline Range Organics (C6-C10)	42.6	20.0	50.0	ND	85.3	70-130	2.35	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.93		8.00		86.6	70-130			



QC Summary Data

GHD	Project Name:	12566090/ Jackson B #57	Reported:
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2339055-BLK1) Prepared: 09/28/23 Analyzed: 09/28/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.535		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			

LCS (2339055-BS2) Prepared: 09/28/23 Analyzed: 09/28/23

Gasoline Range Organics (C6-C10)	53.1	20.0	50.0		106	70-130			
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			

Matrix Spike (2339055-MS2) Source: E309212-02 Prepared: 09/28/23 Analyzed: 09/29/23

Gasoline Range Organics (C6-C10)	55.4	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.537		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.2	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

Matrix Spike Dup (2339055-MSD2) Source: E309212-02 Prepared: 09/28/23 Analyzed: 09/29/23

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0	ND	105	70-130	5.69	20	
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			



QC Summary Data

GHD	Project Name:	12566090/ Jackson B #57	Reported:
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2339060-BLK1)					Prepared: 09/28/23 Analyzed: 09/28/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.3		50.0		90.6	50-200			

LCS (2339060-BS1)					Prepared: 09/28/23 Analyzed: 09/28/23				
Diesel Range Organics (C10-C28)	275	25.0	250		110	38-132			
Surrogate: n-Nonane	49.4		50.0		98.9	50-200			

Matrix Spike (2339060-MS1)					Source: E309204-02		Prepared: 09/28/23 Analyzed: 09/28/23		
Diesel Range Organics (C10-C28)	302	25.0	250	ND	121	38-132			
Surrogate: n-Nonane	45.4		50.0		90.7	50-200			

Matrix Spike Dup (2339060-MSD1)					Source: E309204-02		Prepared: 09/28/23 Analyzed: 09/28/23		
Diesel Range Organics (C10-C28)	299	25.0	250	ND	120	38-132	0.921	20	
Surrogate: n-Nonane	43.4		50.0		86.8	50-200			



QC Summary Data

GHD	Project Name:	12566090/ Jackson B #57	Reported:
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2339061-BLK1)					Prepared: 09/28/23 Analyzed: 09/28/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.0		50.0		86.0	50-200			

LCS (2339061-BS1)					Prepared: 09/28/23 Analyzed: 09/28/23				
Diesel Range Organics (C10-C28)	275	25.0	250		110	38-132			
Surrogate: n-Nonane	51.2		50.0		102	50-200			

Matrix Spike (2339061-MS1)					Source: E309215-06		Prepared: 09/28/23 Analyzed: 09/28/23		
Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	51.8		50.0		104	50-200			

Matrix Spike Dup (2339061-MSD1)					Source: E309215-06		Prepared: 09/28/23 Analyzed: 09/28/23		
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132	9.57	20	
Surrogate: n-Nonane	49.1		50.0		98.1	50-200			



QC Summary Data

GHD	Project Name:	12566090/ Jackson B #57	Reported:
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2339068-BLK1)					Prepared: 09/28/23 Analyzed: 09/28/23				
Chloride	ND	20.0							
LCS (2339068-BS1)					Prepared: 09/28/23 Analyzed: 09/28/23				
Chloride	244	20.0	250		97.6	90-110			
Matrix Spike (2339068-MS1)					Source: E309205-01		Prepared: 09/28/23 Analyzed: 09/28/23		
Chloride	25600	400	250	22600	NR	80-120			M5
Matrix Spike Dup (2339068-MSD1)					Source: E309205-01		Prepared: 09/28/23 Analyzed: 09/28/23		
Chloride	28000	400	250	22600	NR	80-120	9.05	20	M5



QC Summary Data

GHD	Project Name:	12566090/ Jackson B #57	Reported:
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	9/29/2023 3:51:35PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2339081-BLK1)					Prepared: 09/28/23 Analyzed: 09/28/23				
Chloride	ND	20.0							
LCS (2339081-BS1)					Prepared: 09/28/23 Analyzed: 09/28/23				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2339081-MS1)					Source: E309215-01		Prepared: 09/28/23 Analyzed: 09/28/23		
Chloride	264	20.0	250	ND	106	80-120			
Matrix Spike Dup (2339081-MSD1)					Source: E309215-01		Prepared: 09/28/23 Analyzed: 09/28/23		
Chloride	269	20.0	250	ND	108	80-120	1.84	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	09/29/23 15:51

- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Client: GHD		Bill To		Lab Use Only				TAT				EPA Program				
Project: 12566090/Jackson B #57		Attention: EOG Amber Griffin		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Moshgahan Mansoori/JT Murrey		Address: 1045 4th st,		E 309215		19034-0001			X		X					
Address: 6121 Indian School Rd, NE, st.200		City, State, Zip: Artesia, NM 88210		Analysis and Method										RCRA		
City, State, Zip: Albuquerque, NM, 87110		Phone:		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	TCEQ 1005- TX	State				
Phone: (425)-563-6516		Email: amber_griffin@eogresources.com										NM	CO	UT	AZ	TX
Email: Moshghan.Mansoori@ghd.com																
Report due by:				Remarks												
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number											
1102	9/27/23	S	1	S-12587914-270923-SK-CB-1B(10A)	1	X	X		X							
1103	9/27/23	S	1	S-12587914-270923-SK-CB-1B(15A)	2	X	X		X							
1104	9/27/23	S	1	S-12587914-270923-SK-CB-1B(20A)	3	X	X		X							
1105	9/27/23	S	1	S-12587914-270923-SK-CB-1B(25A)	4	X	X		X							
1106	9/27/23	S	1	S-12587914-270923-SK-CB-1B(30A)	5	X	X		X							
1107	9/27/23	S	1	S-12587914-270923-SK-CB-1B(35A)	6	X	X		X							
1108	9/27/23	S	1	S-12587914-270923-SK-CB-1B(40A)	7	X	X		X							
1109	9/27/23	S	1	S-12587914-270923-SK-CB-1B(45A)	8	X	X		X							
1110	9/27/23	S	1	S-12587914-270923-SK-CB-1B(50A)	9	X	X		X							
1111	9/27/23	S	1	S-12587914-270923-SK-CB-1B(55A)	10	X	X		X							
Additional Instructions: please email results to: amber_griffin@eogresources.com, chase_settle@eogresources.com; jt.murrey@ghd.com																
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.						
Sampled by:										Lab Use Only						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received on ice: (Y) / N								
Michelle Cony		9/27/23	15:00	Michelle Cony		9/27/23	16:15									
Michelle Cony		9/27/23	17:15	Michelle Cony		9/27/23	17:00	T1 T2 T3								
Michelle Cony		9/27/23	23:45	Michelle Cony		9/27/23	8:15	AVG Temp °C 4								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA						
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																

Client: GHD		Bill To		Lab Use Only		TAT		EPA Program					
Project: 12566090/Jackson B #57		Attention: EOG Amber Griffin		Lab WO# E 309215		Job Number 19034-0001		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Moshghan Mansoori/JT Murrey		Address: 1045 4th st.		Analysis and Method									
Address: 6121 Indian School Rd, NE, st.200		City, State, Zip: Artesia, NM 88210											RCRA
City, State, Zip: Albuquerque, NM, 87110		Phone:											
Phone: (425)-563-6516		Email: amber_griffin@eogresources.com											
Email: Moshghan.Mansoori@ghd.com													
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC - NM	TCEQ 1005- TX	Remarks
1112	9/27/23	S	1	S-12587914-270923-SK-CB-1B(60A)	11	X	X		X	X				
1113	9/27/23	S	1	S-12587914-270923-SK-CB-1B(65A)	12	X	X		X	X				
1114	9/27/23	S	1	S-12587914-270923-SK-CB-1B(70A)	13	X	X		X	X				
1115	9/27/23	S	1	S-12587914-270923-SK-CB-2B(75A)	14	X	X		X	X				
1128	9/27/23	S	1	S-12587914-270923-SK-CB-2B(10A)	15	X	X		X	X				
1129	9/27/23	S	1	S-12587914-270923-SK-CB-2B(15A)	16	X	X		X	X				
1130	9/27/23	S	1	S-12587914-270923-SK-CB-2B(20A)	17	X	X		X	X				
1131	9/27/23	S	1	S-12587914-270923-SK-CB-2B(25A)	18	X	X		X	X				
1132	9/27/23	S	1	S-12587914-270923-SK-CB-2B(30A)	19	X	X		X	X				
1137	9/27/23	S	1	S-12587914-270923-SK-CB-2B(35A)	20	X	X		X	X				

Additional Instructions: please email results to: amber_griffin@eogresources.com, chase_settle@eogresources.com; jt.murrey@ghd.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Sampled by:						Lab Use Only					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N					
<i>Amber Griffin</i>	9/27/23	15:00	<i>Amber Griffin</i>	9/27/23	16:15						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 _____ T2 _____ T3 _____					
<i>Amber Griffin</i>	9-27-23	17:15	<i>Amber Griffin</i>	9/27/23	17:00						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C <u>4</u>					
<i>Amber Griffin</i>	9/27/23	23:45	<i>Amber Griffin</i>	9-28-23	8:15						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



envirotech

Envirotech Analytical Laboratory

Printed: 9/28/2023 2:04:58PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	GHD	Date Received:	09/28/23 08:15	Work Order ID:	E309215
Phone:	(505) 884-0672	Date Logged In:	09/27/23 17:15	Logged In By:	Caitlin Mars
Email:	moshghan.mansoori@ghd.com	Due Date:	09/29/23 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Client asked to add Btex and remove VOC by 8260. Corrected sample names on COC.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: na

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Project Information

Chain of Custody

Page 1 of 3

Client: GHD				Bill To				Lab Use Only				TAT				EPA Program			
Project: 12566090/Jackson B #57				Attention: EOG Amber Griffin				Lab WO# E309215				Job Number 19034-0001				1D 2D 3D Standard CWA SDWA			
Project Manager: Moshghan Mansoori/JT Murrey				Address: 1045 4th st,															
Address: 6121 Indian School Rd, NE, st.200				City, State, Zip: Artesia, NM 88210															
City, State, Zip: Albuquerque, NM, 87110				Phone:															
Phone: (425)-563-6516				Email: amber_griffin@eogresources.com															
Email: Moshghan.Mansoori@ghd.com																			
Report due by:																			

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	TL-1000-1X	TCEQ 1000-1X	Remarks
1102	9/27/23	S	1	12587914-270923-SK CB-1B(10ft)	1	X	X	X	X	X	X				Client asked to
1103	9/27/23	S	1	12587914-270923-SK CB-1B(15ft)	2	X	X	X	X	X	X				add Btex and
1104	9/27/23	S	1	12587914-270923-SK CB-1B(20ft)	3	X	X	X	X	X	X				remove VOC's
1105	9/27/23	S	1	12587914-270923-SK CB-1B(25ft)	4	X	X	X	X	X	X				Corrected sample
1106	9/27/23	S	1	12587914-270923-SK CB-1B(30ft)	5	X	X	X	X	X	X				names.
1107	9/27/23	S	1	12587914-270923-SK CB-1B(35ft)	6	X	X	X	X	X	X				9/28/23 CM
1108	9/27/23	S	1	12587914-270923-SK CB-1B(40ft)	7	X	X	X	X	X	X				
1109	9/27/23	S	1	12587914-270923-SK CB-1B(45ft)	8	X	X	X	X	X	X				
1110	9/27/23	S	1	12587914-270923-SK CB-2B(50ft)	9	X	X	X	X	X	X				
1111	9/27/23	S	1	12587914-270923-SK CB-2B(55ft)	10	X	X	X	X	X	X				

Additional Instructions: please email results to: amber_griffin@eogresources.com, chase_settle@eogresources.com; jt.murrey@ghd.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>[Signature]</i>	9/27/23	15:00	<i>[Signature]</i>	9/27/23	16:15
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>[Signature]</i>	9/27/23	17:15	<i>[Signature]</i>	9/27/23	17:00
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>[Signature]</i>	9/27/23	23:45	<i>[Signature]</i>	9/28/23	8:15
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



envirotech

Project Information

Chain of Custody

Client: GHD					Bill To					Lab Use Only					TAT				EPA Program		
Project: 12566090/Jackson B #57					Attention: EOG Amber Griffin					Lab WO#		Job Number			1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Moshghan Mansoori/JT Murrey					Address: 1045 4th st,					E 309215		19034-0001				X		X			
Address: 6121 Indian School Rd, NE, st.200					City, State, Zip: Artesia, NM 88210					Analysis and Method										RCRA	
City, State, Zip: Albuquerque, NM, 87110					Phone:																
Phone: (425)-563-6516					Email: amber_griffin@eogresources.com															State	
Email: Moshghan.Mansoori@ghd.com																				NM CO UT AZ TX	
Report due by:																					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	TCEQ 1005-TX								
1112	9/27/23	S	1	12587914-270923-SK (B-1B(604))	11	X	X	X	X	X											
1113	9/27/23	S	1	12587914-270923-SK (B-1B(65A))	12	X	X	X	X	X											
1114	9/27/23	S	1	12587914-270923-SK (B-1B(75A))	13	X	X	X	X	X											
1115	9/27/23	S	1	12587914-270923-SK (B-2B(75A))	14	X	X	X	X	X											
1128	9/27/23	S	1	12587914-270923-SK (C-2B(10A))	15	X	X	X	X	X											
1129	9/27/23	S	1	12587914-270923-SK (C-2B(15A))	16	X	X	X	X	X											
1120	9/27/23	S	1	12587914-270923-SK (C-2B(20A))	17	X	X	X	X	X											
1131	9/27/23	S	1	12587914-270923-SK (B-2B(25A))	18	X	X	X	X	X											
1132	9/27/23	S	1	12587914-270923-SK (B-2B(30A))	19	X	X	X	X	X											
1127	9/27/23	S	1	12587914-270923-SK (C-2B(35A))	20	X	X	X	X	X											
Additional Instructions: please email results to: amber_griffin@eogresources.com, chase_settle@eogresources.com; jt.murrey@ghd.com																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only													
<i>Amber Griffin</i>		9/27/23	15:00	<i>Amber Griffin</i>		9/27/23	16:15	Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 _____ T2 _____ T3 _____													
<i>Michelle Lemay</i>		9-27-23	17:15	<i>Michelle Lemay</i>		9/27/23	17:00														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4</u>													
<i>Michelle Lemay</i>		9/27/23	23:45	<i>Michelle Lemay</i>		9-28-23	8:15														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time														
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____											
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					



envirotech

Project Information

Chain of Custody

Page 3 of 3

Client: <u>GHD</u>				Bill To				Lab Use Only				TAT				EPA Program	
Project: <u>12566090/Jackson B #57</u>				Attention: <u>EOG Amber Griffin</u>				Lab WO# <u>E309215</u>		Job Number <u>19034-0001</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: <u>Moshghan Mansoori/JT Murrey</u>				Address: <u>1045 4th st,</u>									<u>X</u>		<u>9</u>		
Address: <u>6121 Indian School Rd, NE, st.200</u>				City, State, Zip: <u>Artesia, NM 88210</u>												RCRA	
City, State, Zip: <u>Albuquerque, NM, 87110</u>				Phone: _____													
Phone: <u>(425)-563-6516</u>				Email: <u>amber_griffin@eogresources.com</u>													
Email: <u>Moshghan.Mansoori@ghd.com</u>																	
Report due by: _____																	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC - NM	TCEQ 1005 TX	State					Remarks
														NM	CO	UT	AZ	TX	
6134	9/29/23	S	1	5-12567914-270923-SK-CB-2B(40pt)	21	X	X	X	X		X								
6135	9/27/23	S	1	5-12567914-270923-SK-CB-2B(45pt)	22	X	X	X	X		X								
6136	9/27/23	S	1	5-12567914-270923-SK-CB-2B(50pt)	23	X	X	X	X		X								

Additional Instructions: please email results to: amber_griffin@eogresources.com, chase_settle@eogresources.com; jt.murrey@ghd.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: _____

Relinquished by: (Signature) Amber Griffin Date 9/27/23 Time 1500 Received by: (Signature) Michelle Guffy Date 9-27-23 Time 1615

Relinquished by: (Signature) Michelle Guffy Date 9-27-23 Time 1715 Received by: (Signature) Michelle Guffy Date 9/27/23 Time 17:00

Relinquished by: (Signature) Michelle Guffy Date 9/27/23 Time 23:45 Received by: (Signature) Cathy Mar Date 9-28-23 Time 8:15

Relinquished by: (Signature) _____ Date _____ Time _____ Received by: (Signature) _____ Date _____ Time _____

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____

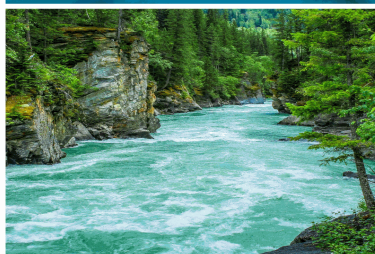
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



envirotech

Report to:

Moshghan Mansoori



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

GHD

Project Name: 12566090/ Jackson B #57

Work Order: E304101

Job Number: 19034-0001

Received: 4/20/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/26/23

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/26/23

Moshghan Mansoori
6121 Indian School Rd. NE #200
Albuquerque, NM 87110



Project Name: 12566090/ Jackson B #57
Workorder: E304101
Date Received: 4/20/2023 8:15:00AM

Moshghan Mansoori,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/20/2023 8:15:00AM, under the Project Name: 12566090/ Jackson B #57.

The analytical test results summarized in this report with the Project Name: 12566090/ Jackson B #57 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
CB-1A (10 ft)	6
CB-1A (15 ft)	7
CB-1A (20 ft)	8
CB-1A (25 ft)	9
CB-1A (30 ft)	10
CB-1A (35 ft)	11
CB-1A (40 ft)	12
CB-1A (45 ft)	13
CB-1A (50 ft)	14
CB-1A (55 ft)	15
CB-1A (65 ft)	16
CB-1A (70 ft)	17
CB-1A (75 ft)	18
CB-1A (60 ft)	19
CB-2A (10 ft)	20
CB-2A (15 ft)	21
CB-2A (20 ft)	22
CB-2A (25 ft)	23
CB-2A (30 ft)	24
CB-2A (35 ft)	25

Table of Contents (continued)

CB-2A (40 ft)	26
CB-2A (45 ft)	27
CB-2A (50 ft)	28
QC Summary Data	29
QC - Volatile Organic Compounds by EPA 8260B	29
QC - Nonhalogenated Organics by EPA 8015D - GRO	31
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	33
QC - Anions by EPA 300.0/9056A	35
Definitions and Notes	37
Chain of Custody etc.	38

Sample Summary

GHD	Project Name:	12566090/ Jackson B #57	Reported:
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	04/26/23 13:54

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CB-1A (10 ft)	E304101-01A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (15 ft)	E304101-02A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (20 ft)	E304101-03A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (25 ft)	E304101-04A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (30 ft)	E304101-05A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (35 ft)	E304101-06A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (40 ft)	E304101-07A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (45 ft)	E304101-08A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (50 ft)	E304101-09A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (55 ft)	E304101-10A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (65 ft)	E304101-11A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (70 ft)	E304101-12A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (75 ft)	E304101-13A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-1A (60 ft)	E304101-14A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-2A (10 ft)	E304101-15A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-2A (15 ft)	E304101-16A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-2A (20 ft)	E304101-17A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-2A (25 ft)	E304101-18A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-2A (30 ft)	E304101-19A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-2A (35 ft)	E304101-20A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-2A (40 ft)	E304101-21A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-2A (45 ft)	E304101-22A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.
CB-2A (50 ft)	E304101-23A	Soil	04/19/23	04/20/23	Glass Jar, 2 oz.



Sample Data

GHD 6121 Indian School Rd. NE #200 Albuquerque NM, 87110	Project Name: 12566090/ Jackson B #57 Project Number: 19034-0001 Project Manager: Moshghan Mansoori	Reported: 4/26/2023 1:54:26PM
--	---	----------------------------------

CB-1A (10 ft)

E304101-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
---------	--------	-----------------	----------	----------	----------	-------

Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2316037	
Benzene	ND	0.0250	1	04/20/23	04/20/23	
Ethylbenzene	ND	0.0250	1	04/20/23	04/20/23	
Toluene	ND	0.0250	1	04/20/23	04/20/23	
o-Xylene	ND	0.0250	1	04/20/23	04/20/23	
p,m-Xylene	ND	0.0500	1	04/20/23	04/20/23	
Total Xylenes	ND	0.0250	1	04/20/23	04/20/23	
<i>Surrogate: Bromofluorobenzene</i>	99.9 %	70-130		04/20/23	04/20/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	112 %	70-130		04/20/23	04/20/23	
<i>Surrogate: Toluene-d8</i>	101 %	70-130		04/20/23	04/20/23	

Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2316037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/20/23	04/20/23	
<i>Surrogate: Bromofluorobenzene</i>	99.9 %	70-130		04/20/23	04/20/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	112 %	70-130		04/20/23	04/20/23	
<i>Surrogate: Toluene-d8</i>	101 %	70-130		04/20/23	04/20/23	

Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2316043	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/20/23	04/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/20/23	04/21/23	
<i>Surrogate: n-Nonane</i>	117 %	50-200		04/20/23	04/21/23	

Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2316049	
Chloride	97.0	20.0	1	04/20/23	04/21/23	



Sample Data

GHD
6121 Indian School Rd. NE #200
Albuquerque NM, 87110

Project Name: 12566090/ Jackson B #57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
4/26/2023 1:54:26PM

CB-1A (15 ft)

E304101-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Benzene	ND	0.0250	1	04/20/23	04/20/23	
Ethylbenzene	ND	0.0250	1	04/20/23	04/20/23	
Toluene	ND	0.0250	1	04/20/23	04/20/23	
o-Xylene	ND	0.0250	1	04/20/23	04/20/23	
p,m-Xylene	ND	0.0500	1	04/20/23	04/20/23	
Total Xylenes	ND	0.0250	1	04/20/23	04/20/23	
Surrogate: Bromofluorobenzene		102 %	70-130	04/20/23	04/20/23	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	04/20/23	04/20/23	
Surrogate: Toluene-d8		102 %	70-130	04/20/23	04/20/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/20/23	04/20/23	
Surrogate: Bromofluorobenzene		102 %	70-130	04/20/23	04/20/23	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	04/20/23	04/20/23	
Surrogate: Toluene-d8		102 %	70-130	04/20/23	04/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316043
Diesel Range Organics (C10-C28)	ND	25.0	1	04/20/23	04/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/20/23	04/21/23	
Surrogate: n-Nonane		114 %	50-200	04/20/23	04/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316049
Chloride	60.9	20.0	1	04/20/23	04/21/23	



Sample Data

GHD
6121 Indian School Rd. NE #200
Albuquerque NM, 87110

Project Name: 12566090/ Jackson B #57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
4/26/2023 1:54:26PM

CB-1A (20 ft)

E304101-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Benzene	ND	0.0250	1	04/20/23	04/20/23	
Ethylbenzene	ND	0.0250	1	04/20/23	04/20/23	
Toluene	ND	0.0250	1	04/20/23	04/20/23	
o-Xylene	ND	0.0250	1	04/20/23	04/20/23	
p,m-Xylene	ND	0.0500	1	04/20/23	04/20/23	
Total Xylenes	ND	0.0250	1	04/20/23	04/20/23	
Surrogate: Bromofluorobenzene		101 %	70-130	04/20/23	04/20/23	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130	04/20/23	04/20/23	
Surrogate: Toluene-d8		105 %	70-130	04/20/23	04/20/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/20/23	04/20/23	
Surrogate: Bromofluorobenzene		101 %	70-130	04/20/23	04/20/23	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130	04/20/23	04/20/23	
Surrogate: Toluene-d8		105 %	70-130	04/20/23	04/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316043
Diesel Range Organics (C10-C28)	ND	25.0	1	04/20/23	04/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/20/23	04/21/23	
Surrogate: n-Nonane		112 %	50-200	04/20/23	04/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316049
Chloride	44.2	20.0	1	04/20/23	04/21/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

CB-1A (25 ft)

E304101-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Benzene	ND	0.0250	1	04/20/23	04/20/23	
Ethylbenzene	ND	0.0250	1	04/20/23	04/20/23	
Toluene	ND	0.0250	1	04/20/23	04/20/23	
o-Xylene	ND	0.0250	1	04/20/23	04/20/23	
p,m-Xylene	ND	0.0500	1	04/20/23	04/20/23	
Total Xylenes	ND	0.0250	1	04/20/23	04/20/23	
Surrogate: Bromofluorobenzene		101 %	70-130	04/20/23	04/20/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	04/20/23	04/20/23	
Surrogate: Toluene-d8		103 %	70-130	04/20/23	04/20/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/20/23	04/20/23	
Surrogate: Bromofluorobenzene		101 %	70-130	04/20/23	04/20/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	04/20/23	04/20/23	
Surrogate: Toluene-d8		103 %	70-130	04/20/23	04/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316043
Diesel Range Organics (C10-C28)	ND	25.0	1	04/20/23	04/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/20/23	04/21/23	
Surrogate: n-Nonane		116 %	50-200	04/20/23	04/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316049
Chloride	38.7	20.0	1	04/20/23	04/21/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 4/26/2023 1:54:26PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-1A (30 ft)

E304101-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Benzene	ND	0.0250	1	04/20/23	04/20/23	
Ethylbenzene	ND	0.0250	1	04/20/23	04/20/23	
Toluene	ND	0.0250	1	04/20/23	04/20/23	
o-Xylene	ND	0.0250	1	04/20/23	04/20/23	
p,m-Xylene	ND	0.0500	1	04/20/23	04/20/23	
Total Xylenes	ND	0.0250	1	04/20/23	04/20/23	
Surrogate: Bromofluorobenzene		103 %	70-130	04/20/23	04/20/23	
Surrogate: 1,2-Dichloroethane-d4		116 %	70-130	04/20/23	04/20/23	
Surrogate: Toluene-d8		99.6 %	70-130	04/20/23	04/20/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/20/23	04/20/23	
Surrogate: Bromofluorobenzene		103 %	70-130	04/20/23	04/20/23	
Surrogate: 1,2-Dichloroethane-d4		116 %	70-130	04/20/23	04/20/23	
Surrogate: Toluene-d8		99.6 %	70-130	04/20/23	04/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316043
Diesel Range Organics (C10-C28)	ND	25.0	1	04/20/23	04/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/20/23	04/21/23	
Surrogate: n-Nonane		112 %	50-200	04/20/23	04/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316049
Chloride	23.9	20.0	1	04/20/23	04/21/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

CB-1A (35 ft)

E304101-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Benzene	ND	0.0250	1	04/20/23	04/20/23	
Ethylbenzene	2.65	0.0250	1	04/20/23	04/20/23	
Toluene	0.815	0.0250	1	04/20/23	04/20/23	
o-Xylene	1.26	0.0250	1	04/20/23	04/20/23	
p,m-Xylene	2.14	0.0500	1	04/20/23	04/20/23	
Total Xylenes	3.40	0.0250	1	04/20/23	04/20/23	
Surrogate: Bromofluorobenzene		109 %	70-130	04/20/23	04/20/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	04/20/23	04/20/23	
Surrogate: Toluene-d8		108 %	70-130	04/20/23	04/20/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	114	20.0	1	04/20/23	04/20/23	
Surrogate: Bromofluorobenzene		109 %	70-130	04/20/23	04/20/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	04/20/23	04/20/23	
Surrogate: Toluene-d8		108 %	70-130	04/20/23	04/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316043
Diesel Range Organics (C10-C28)	1730	250	10	04/20/23	04/22/23	
Oil Range Organics (C28-C36)	ND	500	10	04/20/23	04/22/23	
Surrogate: n-Nonane		115 %	50-200	04/20/23	04/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316049
Chloride	ND	20.0	1	04/20/23	04/21/23	



Sample Data

GHD
6121 Indian School Rd. NE #200
Albuquerque NM, 87110

Project Name: 12566090/ Jackson B #57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
4/26/2023 1:54:26PM

CB-1A (40 ft)

E304101-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Benzene	ND	0.0250	1	04/20/23	04/20/23	
Ethylbenzene	0.286	0.0250	1	04/20/23	04/20/23	
Toluene	0.0895	0.0250	1	04/20/23	04/20/23	
o-Xylene	0.153	0.0250	1	04/20/23	04/20/23	
p,m-Xylene	0.223	0.0500	1	04/20/23	04/20/23	
Total Xylenes	0.376	0.0250	1	04/20/23	04/20/23	
Surrogate: Bromofluorobenzene		107 %	70-130	04/20/23	04/20/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	04/20/23	04/20/23	
Surrogate: Toluene-d8		98.4 %	70-130	04/20/23	04/20/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	28.8	20.0	1	04/20/23	04/20/23	
Surrogate: Bromofluorobenzene		107 %	70-130	04/20/23	04/20/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	04/20/23	04/20/23	
Surrogate: Toluene-d8		98.4 %	70-130	04/20/23	04/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316043
Diesel Range Organics (C10-C28)	429	50.0	2	04/20/23	04/22/23	
Oil Range Organics (C28-C36)	112	100	2	04/20/23	04/22/23	
Surrogate: n-Nonane		111 %	50-200	04/20/23	04/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316049
Chloride	ND	20.0	1	04/20/23	04/21/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 4/26/2023 1:54:26PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-1A (45 ft)

E304101-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Benzene	ND	0.0250	1	04/20/23	04/21/23	
Ethylbenzene	ND	0.0250	1	04/20/23	04/21/23	
Toluene	ND	0.0250	1	04/20/23	04/21/23	
o-Xylene	ND	0.0250	1	04/20/23	04/21/23	
p,m-Xylene	ND	0.0500	1	04/20/23	04/21/23	
Total Xylenes	ND	0.0250	1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		105 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		97.3 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		105 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		97.3 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316043
Diesel Range Organics (C10-C28)	90.5	25.0	1	04/20/23	04/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/20/23	04/21/23	
Surrogate: n-Nonane		113 %	50-200	04/20/23	04/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316049
Chloride	ND	20.0	1	04/20/23	04/21/23	



Sample Data

GHD
6121 Indian School Rd. NE #200
Albuquerque NM, 87110

Project Name: 12566090/ Jackson B #57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
4/26/2023 1:54:26PM

CB-1A (50 ft)

E304101-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Benzene	ND	0.0250	1	04/20/23	04/21/23	
Ethylbenzene	ND	0.0250	1	04/20/23	04/21/23	
Toluene	ND	0.0250	1	04/20/23	04/21/23	
o-Xylene	ND	0.0250	1	04/20/23	04/21/23	
p,m-Xylene	ND	0.0500	1	04/20/23	04/21/23	
Total Xylenes	ND	0.0250	1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		104 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		98.4 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		104 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		98.4 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316043
Diesel Range Organics (C10-C28)	57.7	25.0	1	04/20/23	04/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/20/23	04/21/23	
Surrogate: n-Nonane		112 %	50-200	04/20/23	04/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316049
Chloride	ND	20.0	1	04/20/23	04/21/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 4/26/2023 1:54:26PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-1A (55 ft)

E304101-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Benzene	ND	0.0250	1	04/20/23	04/21/23	
Ethylbenzene	ND	0.0250	1	04/20/23	04/21/23	
Toluene	ND	0.0250	1	04/20/23	04/21/23	
o-Xylene	ND	0.0250	1	04/20/23	04/21/23	
p,m-Xylene	ND	0.0500	1	04/20/23	04/21/23	
Total Xylenes	ND	0.0250	1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		102 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		102 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		102 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		102 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316043
Diesel Range Organics (C10-C28)	26.7	25.0	1	04/20/23	04/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/20/23	04/21/23	
Surrogate: n-Nonane		115 %	50-200	04/20/23	04/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316049
Chloride	ND	20.0	1	04/20/23	04/21/23	



Sample Data

GHD
6121 Indian School Rd. NE #200
Albuquerque NM, 87110

Project Name: 12566090/ Jackson B #57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
4/26/2023 1:54:26PM

CB-1A (65 ft)

E304101-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Benzene	ND	0.0250	1	04/20/23	04/21/23	
Ethylbenzene	ND	0.0250	1	04/20/23	04/21/23	
Toluene	ND	0.0250	1	04/20/23	04/21/23	
o-Xylene	ND	0.0250	1	04/20/23	04/21/23	
p,m-Xylene	ND	0.0500	1	04/20/23	04/21/23	
Total Xylenes	ND	0.0250	1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		104 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		99.9 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		104 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		99.9 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316043
Diesel Range Organics (C10-C28)	26.6	25.0	1	04/20/23	04/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/20/23	04/21/23	
Surrogate: n-Nonane		116 %	50-200	04/20/23	04/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316049
Chloride	ND	20.0	1	04/20/23	04/21/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

CB-1A (70 ft)

E304101-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Benzene	ND	0.0250	1	04/20/23	04/21/23	
Ethylbenzene	ND	0.0250	1	04/20/23	04/21/23	
Toluene	ND	0.0250	1	04/20/23	04/21/23	
o-Xylene	ND	0.0250	1	04/20/23	04/21/23	
p,m-Xylene	ND	0.0500	1	04/20/23	04/21/23	
Total Xylenes	ND	0.0250	1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		104 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		99.7 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		104 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		99.7 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316043
Diesel Range Organics (C10-C28)	39.2	25.0	1	04/20/23	04/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/20/23	04/21/23	
Surrogate: n-Nonane		115 %	50-200	04/20/23	04/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316049
Chloride	ND	20.0	1	04/20/23	04/21/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 4/26/2023 1:54:26PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-1A (75 ft)

E304101-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Benzene	ND	0.0250	1	04/20/23	04/21/23	
Ethylbenzene	ND	0.0250	1	04/20/23	04/21/23	
Toluene	ND	0.0250	1	04/20/23	04/21/23	
o-Xylene	ND	0.0250	1	04/20/23	04/21/23	
p,m-Xylene	ND	0.0500	1	04/20/23	04/21/23	
Total Xylenes	ND	0.0250	1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		103 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		101 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		103 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		101 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316043
Diesel Range Organics (C10-C28)	ND	25.0	1	04/20/23	04/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/20/23	04/22/23	
Surrogate: n-Nonane		117 %	50-200	04/20/23	04/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316049
Chloride	ND	20.0	1	04/20/23	04/21/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 4/26/2023 1:54:26PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-1A (60 ft)

E304101-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Benzene	ND	0.0250	1	04/20/23	04/21/23	
Ethylbenzene	ND	0.0250	1	04/20/23	04/21/23	
Toluene	ND	0.0250	1	04/20/23	04/21/23	
o-Xylene	ND	0.0250	1	04/20/23	04/21/23	
p,m-Xylene	ND	0.0500	1	04/20/23	04/21/23	
Total Xylenes	ND	0.0250	1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		100 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		102 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		100 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		102 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316043
Diesel Range Organics (C10-C28)	35.3	25.0	1	04/20/23	04/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/20/23	04/22/23	
Surrogate: n-Nonane		114 %	50-200	04/20/23	04/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316049
Chloride	ND	20.0	1	04/20/23	04/21/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 4/26/2023 1:54:26PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-2A (10 ft)

E304101-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Benzene	ND	0.0250	1	04/20/23	04/21/23	
Ethylbenzene	ND	0.0250	1	04/20/23	04/21/23	
Toluene	ND	0.0250	1	04/20/23	04/21/23	
o-Xylene	ND	0.0250	1	04/20/23	04/21/23	
p,m-Xylene	ND	0.0500	1	04/20/23	04/21/23	
Total Xylenes	ND	0.0250	1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		101 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		103 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		101 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		103 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316043
Diesel Range Organics (C10-C28)	ND	25.0	1	04/20/23	04/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/20/23	04/22/23	
Surrogate: n-Nonane		108 %	50-200	04/20/23	04/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316049
Chloride	240	20.0	1	04/20/23	04/21/23	



Sample Data

GHD
6121 Indian School Rd. NE #200
Albuquerque NM, 87110

Project Name: 12566090/ Jackson B #57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
4/26/2023 1:54:26PM

CB-2A (15 ft)

E304101-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Benzene	ND	0.0250	1	04/20/23	04/21/23	
Ethylbenzene	ND	0.0250	1	04/20/23	04/21/23	
Toluene	ND	0.0250	1	04/20/23	04/21/23	
o-Xylene	ND	0.0250	1	04/20/23	04/21/23	
p,m-Xylene	ND	0.0500	1	04/20/23	04/21/23	
Total Xylenes	ND	0.0250	1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		100 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		104 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		100 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		104 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316043
Diesel Range Organics (C10-C28)	ND	25.0	1	04/20/23	04/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/20/23	04/22/23	
Surrogate: n-Nonane		113 %	50-200	04/20/23	04/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316049
Chloride	82.7	20.0	1	04/20/23	04/21/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 4/26/2023 1:54:26PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-2A (20 ft)

E304101-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2316037	
Benzene	ND	0.0250	1	04/20/23	04/21/23	
Ethylbenzene	ND	0.0250	1	04/20/23	04/21/23	
Toluene	ND	0.0250	1	04/20/23	04/21/23	
o-Xylene	ND	0.0250	1	04/20/23	04/21/23	
p,m-Xylene	ND	0.0500	1	04/20/23	04/21/23	
Total Xylenes	ND	0.0250	1	04/20/23	04/21/23	
<i>Surrogate: Bromofluorobenzene</i>	98.2 %	70-130		04/20/23	04/21/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	107 %	70-130		04/20/23	04/21/23	
<i>Surrogate: Toluene-d8</i>	100 %	70-130		04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2316037	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/20/23	04/21/23	
<i>Surrogate: Bromofluorobenzene</i>	98.2 %	70-130		04/20/23	04/21/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	107 %	70-130		04/20/23	04/21/23	
<i>Surrogate: Toluene-d8</i>	100 %	70-130		04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2316043	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/20/23	04/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/20/23	04/22/23	
<i>Surrogate: n-Nonane</i>	114 %	50-200		04/20/23	04/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2316049	
Chloride	137	20.0	1	04/20/23	04/21/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 4/26/2023 1:54:26PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-2A (25 ft)

E304101-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Benzene	ND	0.0250	1	04/20/23	04/21/23	
Ethylbenzene	ND	0.0250	1	04/20/23	04/21/23	
Toluene	ND	0.0250	1	04/20/23	04/21/23	
o-Xylene	ND	0.0250	1	04/20/23	04/21/23	
p,m-Xylene	ND	0.0500	1	04/20/23	04/21/23	
Total Xylenes	ND	0.0250	1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		100 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		104 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		100 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		104 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316043
Diesel Range Organics (C10-C28)	29.2	25.0	1	04/20/23	04/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/20/23	04/22/23	
Surrogate: n-Nonane		112 %	50-200	04/20/23	04/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316049
Chloride	79.4	20.0	1	04/20/23	04/21/23	



Sample Data

GHD
6121 Indian School Rd. NE #200
Albuquerque NM, 87110

Project Name: 12566090/ Jackson B #57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
4/26/2023 1:54:26PM

CB-2A (30 ft)

E304101-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Benzene	ND	0.0250	1	04/20/23	04/21/23	
Ethylbenzene	0.896	0.0250	1	04/20/23	04/21/23	
Toluene	0.375	0.0250	1	04/20/23	04/21/23	
o-Xylene	0.408	0.0250	1	04/20/23	04/21/23	
p,m-Xylene	0.703	0.0500	1	04/20/23	04/21/23	
Total Xylenes	1.11	0.0250	1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		102 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		104 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	43.8	20.0	1	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		102 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		104 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316043
Diesel Range Organics (C10-C28)	949	50.0	2	04/20/23	04/22/23	
Oil Range Organics (C28-C36)	316	100	2	04/20/23	04/22/23	
Surrogate: n-Nonane		119 %	50-200	04/20/23	04/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316049
Chloride	61.9	20.0	1	04/20/23	04/21/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 4/26/2023 1:54:26PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-2A (35 ft)

E304101-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Benzene	0.455	0.250	10	04/20/23	04/22/23	
Ethylbenzene	13.4	0.250	10	04/20/23	04/22/23	
Toluene	8.51	0.250	10	04/20/23	04/22/23	
o-Xylene	5.11	0.250	10	04/20/23	04/22/23	
p,m-Xylene	10.1	0.500	10	04/20/23	04/22/23	
Total Xylenes	15.2	0.250	10	04/20/23	04/22/23	
Surrogate: Bromofluorobenzene		106 %	70-130	04/20/23	04/22/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	04/20/23	04/22/23	
Surrogate: Toluene-d8		108 %	70-130	04/20/23	04/22/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316037
Gasoline Range Organics (C6-C10)	370	200	10	04/20/23	04/22/23	
Surrogate: Bromofluorobenzene		106 %	70-130	04/20/23	04/22/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	04/20/23	04/22/23	
Surrogate: Toluene-d8		108 %	70-130	04/20/23	04/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2316043
Diesel Range Organics (C10-C28)	3710	250	10	04/20/23	04/22/23	
Oil Range Organics (C28-C36)	1120	500	10	04/20/23	04/22/23	
Surrogate: n-Nonane		145 %	50-200	04/20/23	04/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316049
Chloride	47.2	20.0	1	04/20/23	04/21/23	



Sample Data

GHD	Project Name:	12566090/ Jackson B #57	Reported: 4/26/2023 1:54:26PM
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	

CB-2A (40 ft)

E304101-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2316038	
Benzene	0.900	0.125	5	04/20/23	04/21/23	
Ethylbenzene	19.5	0.125	5	04/20/23	04/21/23	
Toluene	14.0	0.125	5	04/20/23	04/21/23	
o-Xylene	7.43	0.125	5	04/20/23	04/21/23	
p,m-Xylene	15.0	0.250	5	04/20/23	04/21/23	
Total Xylenes	22.5	0.125	5	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene	108 %	70-130		04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4	109 %	70-130		04/20/23	04/21/23	
Surrogate: Toluene-d8	108 %	70-130		04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2316038	
Gasoline Range Organics (C6-C10)	588	100	5	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene	108 %	70-130		04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4	109 %	70-130		04/20/23	04/21/23	
Surrogate: Toluene-d8	108 %	70-130		04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2316045	
Diesel Range Organics (C10-C28)	5310	2500	100	04/20/23	04/22/23	
Oil Range Organics (C28-C36)	ND	5000	100	04/20/23	04/22/23	
Surrogate: n-Nonane	160 %	50-200		04/20/23	04/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2316055	
Chloride	45.9	20.0	1	04/20/23	04/20/23	



Sample Data

GHD
6121 Indian School Rd. NE #200
Albuquerque NM, 87110

Project Name: 12566090/ Jackson B #57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
4/26/2023 1:54:26PM

CB-2A (45 ft)

E304101-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316038
Benzene	0.913	0.125	5	04/20/23	04/21/23	
Ethylbenzene	11.9	0.125	5	04/20/23	04/21/23	
Toluene	10.4	0.125	5	04/20/23	04/21/23	
o-Xylene	4.34	0.125	5	04/20/23	04/21/23	
p,m-Xylene	8.97	0.250	5	04/20/23	04/21/23	
Total Xylenes	13.3	0.125	5	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		103 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		106 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316038
Gasoline Range Organics (C6-C10)	381	100	5	04/20/23	04/21/23	
Surrogate: Bromofluorobenzene		103 %	70-130	04/20/23	04/21/23	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130	04/20/23	04/21/23	
Surrogate: Toluene-d8		106 %	70-130	04/20/23	04/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2316045
Diesel Range Organics (C10-C28)	4230	2500	100	04/20/23	04/22/23	
Oil Range Organics (C28-C36)	ND	5000	100	04/20/23	04/22/23	
Surrogate: n-Nonane		149 %	50-200	04/20/23	04/22/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316055
Chloride	318	20.0	1	04/20/23	04/20/23	



Sample Data

GHD
6121 Indian School Rd. NE #200
Albuquerque NM, 87110

Project Name: 12566090/ Jackson B #57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
4/26/2023 1:54:26PM

CB-2A (50 ft)

E304101-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316038
Benzene	10.6	0.250	10	04/20/23	04/24/23	
Ethylbenzene	38.5	0.250	10	04/20/23	04/24/23	
Toluene	47.9	0.250	10	04/20/23	04/24/23	
o-Xylene	12.5	0.250	10	04/20/23	04/24/23	
p,m-Xylene	26.8	0.500	10	04/20/23	04/24/23	
Total Xylenes	39.3	0.250	10	04/20/23	04/24/23	
Surrogate: Bromofluorobenzene	106 %	70-130		04/20/23	04/24/23	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		04/20/23	04/24/23	
Surrogate: Toluene-d8	102 %	70-130		04/20/23	04/24/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2316038
Gasoline Range Organics (C6-C10)	766	200	10	04/20/23	04/24/23	
Surrogate: Bromofluorobenzene	106 %	70-130		04/20/23	04/24/23	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		04/20/23	04/24/23	
Surrogate: Toluene-d8	102 %	70-130		04/20/23	04/24/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2316045
Diesel Range Organics (C10-C28)	6850	2500	100	04/20/23	04/22/23	
Oil Range Organics (C28-C36)	ND	5000	100	04/20/23	04/22/23	
Surrogate: n-Nonane	214 %	50-200		04/20/23	04/22/23	SS
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2316055
Chloride	4500	40.0	2	04/20/23	04/20/23	



GHD	Project Name:	12566090/ Jackson B #57	Reported:
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2316037-BLK1) Prepared: 04/20/23 Analyzed: 04/20/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.530		0.500		106	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			

LCS (2316037-BS1) Prepared: 04/20/23 Analyzed: 04/20/23

Benzene	2.27	0.0250	2.50		90.8	70-130			
Ethylbenzene	2.25	0.0250	2.50		90.0	70-130			
Toluene	2.29	0.0250	2.50		91.6	70-130			
o-Xylene	2.25	0.0250	2.50		90.0	70-130			
p,m-Xylene	4.45	0.0500	5.00		89.0	70-130			
Total Xylenes	6.70	0.0250	7.50		89.4	70-130			
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.541		0.500		108	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

Matrix Spike (2316037-MS1) Source: E304101-05 Prepared: 04/20/23 Analyzed: 04/20/23

Benzene	2.55	0.0250	2.50	ND	102	48-131			
Ethylbenzene	2.49	0.0250	2.50	ND	99.5	45-135			
Toluene	2.48	0.0250	2.50	ND	99.3	48-130			
o-Xylene	2.48	0.0250	2.50	ND	99.2	43-135			
p,m-Xylene	4.89	0.0500	5.00	ND	97.9	43-135			
Total Xylenes	7.37	0.0250	7.50	ND	98.3	43-135			
Surrogate: Bromofluorobenzene	0.547		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.552		0.500		110	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

Matrix Spike Dup (2316037-MSD1) Source: E304101-05 Prepared: 04/20/23 Analyzed: 04/20/23

Benzene	2.44	0.0250	2.50	ND	97.4	48-131	4.77	23	
Ethylbenzene	2.37	0.0250	2.50	ND	94.7	45-135	4.95	27	
Toluene	2.37	0.0250	2.50	ND	94.7	48-130	4.78	24	
o-Xylene	2.34	0.0250	2.50	ND	93.8	43-135	5.64	27	
p,m-Xylene	4.69	0.0500	5.00	ND	93.8	43-135	4.25	27	
Total Xylenes	7.03	0.0250	7.50	ND	93.8	43-135	4.71	27	
Surrogate: Bromofluorobenzene	0.551		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.569		0.500		114	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			



QC Summary Data

GHD	Project Name:	12566090/ Jackson B #57	Reported:
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2316038-BLK1)

Prepared: 04/20/23 Analyzed: 04/21/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.497		0.500		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.578		0.500		116	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			

LCS (2316038-BS1)

Prepared: 04/20/23 Analyzed: 04/21/23

Benzene	2.41	0.0250	2.50		96.3	70-130			
Ethylbenzene	2.41	0.0250	2.50		96.2	70-130			
Toluene	2.47	0.0250	2.50		98.7	70-130			
o-Xylene	2.39	0.0250	2.50		95.6	70-130			
p,m-Xylene	4.82	0.0500	5.00		96.4	70-130			
Total Xylenes	7.21	0.0250	7.50		96.2	70-130			
Surrogate: Bromofluorobenzene	0.550		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.578		0.500		116	70-130			
Surrogate: Toluene-d8	0.531		0.500		106	70-130			

Matrix Spike (2316038-MS1)

Source: E304099-21

Prepared: 04/20/23 Analyzed: 04/21/23

Benzene	2.47	0.0250	2.50	ND	98.7	48-131			
Ethylbenzene	2.46	0.0250	2.50	ND	98.3	45-135			
Toluene	2.53	0.0250	2.50	ND	101	48-130			
o-Xylene	2.46	0.0250	2.50	ND	98.5	43-135			
p,m-Xylene	4.91	0.0500	5.00	ND	98.1	43-135			
Total Xylenes	7.37	0.0250	7.50	ND	98.2	43-135			
Surrogate: Bromofluorobenzene	0.543		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.544		0.500		109	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

Matrix Spike Dup (2316038-MSD1)

Source: E304099-21

Prepared: 04/20/23 Analyzed: 04/21/23

Benzene	2.51	0.0250	2.50	ND	100	48-131	1.73	23	
Ethylbenzene	2.48	0.0250	2.50	ND	99.1	45-135	0.851	27	
Toluene	2.55	0.0250	2.50	ND	102	48-130	0.688	24	
o-Xylene	2.47	0.0250	2.50	ND	98.9	43-135	0.365	27	
p,m-Xylene	4.90	0.0500	5.00	ND	98.1	43-135	0.0408	27	
Total Xylenes	7.38	0.0250	7.50	ND	98.3	43-135	0.0950	27	
Surrogate: Bromofluorobenzene	0.535		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.547		0.500		109	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			



QC Summary Data

GHD	Project Name:	12566090/ Jackson B #57	Reported:
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2316037-BLK1)

Prepared: 04/20/23 Analyzed: 04/20/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.507		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.530		0.500		106	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			

LCS (2316037-BS2)

Prepared: 04/20/23 Analyzed: 04/20/23

Gasoline Range Organics (C6-C10)	51.5	20.0	50.0		103	70-130			
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.535		0.500		107	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

Matrix Spike (2316037-MS2)

Source: E304101-05

Prepared: 04/20/23 Analyzed: 04/20/23

Gasoline Range Organics (C6-C10)	52.0	20.0	50.0	ND	104	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.552		0.500		110	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			

Matrix Spike Dup (2316037-MSD2)

Source: E304101-05

Prepared: 04/20/23 Analyzed: 04/20/23

Gasoline Range Organics (C6-C10)	50.6	20.0	50.0	ND	101	70-130	2.66	20	
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.514		0.500		103	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			



QC Summary Data

GHD	Project Name:	12566090/ Jackson B #57	Reported:
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2316038-BLK1)

Prepared: 04/20/23 Analyzed: 04/21/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.497		0.500		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.578		0.500		116	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			

LCS (2316038-BS2)

Prepared: 04/20/23 Analyzed: 04/21/23

Gasoline Range Organics (C6-C10)	51.9	20.0	50.0		104	70-130			
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.551		0.500		110	70-130			
Surrogate: Toluene-d8	0.536		0.500		107	70-130			

Matrix Spike (2316038-MS2)

Source: E304099-21

Prepared: 04/20/23 Analyzed: 04/21/23

Gasoline Range Organics (C6-C10)	54.8	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	0.503		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.524		0.500		105	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			

Matrix Spike Dup (2316038-MSD2)

Source: E304099-21

Prepared: 04/20/23 Analyzed: 04/21/23

Gasoline Range Organics (C6-C10)	51.4	20.0	50.0	ND	103	70-130	6.38	20	
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.536		0.500		107	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			



QC Summary Data

GHD	Project Name:	12566090/ Jackson B #57	Reported:
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2316043-BLK1) Prepared: 04/20/23 Analyzed: 04/21/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.8		50.0		116	50-200			

LCS (2316043-BS1) Prepared: 04/20/23 Analyzed: 04/21/23

Diesel Range Organics (C10-C28)	277	25.0	250		111	38-132			
Surrogate: n-Nonane	53.7		50.0		107	50-200			

Matrix Spike (2316043-MS1) Source: E304101-12 Prepared: 04/20/23 Analyzed: 04/21/23

Diesel Range Organics (C10-C28)	322	25.0	250	39.2	113	38-132			
Surrogate: n-Nonane	55.5		50.0		111	50-200			

Matrix Spike Dup (2316043-MSD1) Source: E304101-12 Prepared: 04/20/23 Analyzed: 04/21/23

Diesel Range Organics (C10-C28)	326	25.0	250	39.2	115	38-132	1.18	20	
Surrogate: n-Nonane	54.7		50.0		109	50-200			



QC Summary Data

GHD	Project Name:	12566090/ Jackson B #57	Reported:
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2316045-BLK1)

Prepared: 04/20/23 Analyzed: 04/21/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.8		50.0		102	50-200			

LCS (2316045-BS1)

Prepared: 04/20/23 Analyzed: 04/21/23

Diesel Range Organics (C10-C28)	264	25.0	250		106	38-132			
Surrogate: n-Nonane	50.2		50.0		100	50-200			

Matrix Spike (2316045-MS1)

Source: E304093-09

Prepared: 04/20/23 Analyzed: 04/24/23

Diesel Range Organics (C10-C28)	1010	250	250	788	89.1	38-132			
Surrogate: n-Nonane	47.3		50.0		94.5	50-200			

Matrix Spike Dup (2316045-MSD1)

Source: E304093-09

Prepared: 04/20/23 Analyzed: 04/24/23

Diesel Range Organics (C10-C28)	1250	250	250	788	187	38-132	21.5	20	M5, R2
Surrogate: n-Nonane	51.0		50.0		102	50-200			



QC Summary Data

GHD	Project Name:	12566090/ Jackson B #57	Reported:
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2316049-BLK1)					Prepared: 04/20/23 Analyzed: 04/21/23				
Chloride	ND	20.0							
LCS (2316049-BS1)					Prepared: 04/20/23 Analyzed: 04/21/23				
Chloride	270	20.0	250		108	90-110			
Matrix Spike (2316049-MS1)					Source: E304101-01		Prepared: 04/20/23 Analyzed: 04/21/23		
Chloride	365	20.0	250	97.0	107	80-120			
Matrix Spike Dup (2316049-MSD1)					Source: E304101-01		Prepared: 04/20/23 Analyzed: 04/21/23		
Chloride	366	20.0	250	97.0	107	80-120	0.107	20	



QC Summary Data

GHD	Project Name:	12566090/ Jackson B #57	Reported:
6121 Indian School Rd. NE #200	Project Number:	19034-0001	
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	4/26/2023 1:54:26PM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2316055-BLK1)					Prepared: 04/20/23 Analyzed: 04/20/23				
Chloride	ND	20.0							
LCS (2316055-BS1)					Prepared: 04/20/23 Analyzed: 04/20/23				
Chloride	265	20.0	250		106	90-110			
Matrix Spike (2316055-MS1)					Source: E304095-01		Prepared: 04/20/23 Analyzed: 04/20/23		
Chloride	272	20.0	250	ND	109	80-120			
Matrix Spike Dup (2316055-MSD1)					Source: E304095-01		Prepared: 04/20/23 Analyzed: 04/20/23		
Chloride	272	20.0	250	ND	109	80-120	0.154	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

GHD	Project Name:	12566090/ Jackson B #57	
6121 Indian School Rd. NE #200	Project Number:	19034-0001	Reported:
Albuquerque NM, 87110	Project Manager:	Moshghan Mansoori	04/26/23 13:54

- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated LCS spike recovery was acceptable.
- R2 The RPD exceeded the acceptance limit.
- S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

Page 1 of 3

Client: GHD Project: 12566090 / Jackson B #57 Project Manager: Moshghan Mansoori/ JT Murrey Address: 6121 Indian School Rd. NE St. 200 City, State, Zip: Albuquerque, NM 87110 Phone: +1 (425) 563-6516 Email: Moshghan.mansoori@ghd.com Report due by:				Bill To Attention: EOG Amber Griffin Address: 1045 4th St. City, State, Zip: Artesia, NM 88210 Phone: Email: amber_griffin@eogresources.com				Lab Use Only Lab WO# E 30410 Job Number: 19034-001		TAT 1D 2D 3D X		EPA Program CWA SDWA RCRA	
						Analysis and Method TPH GSD/ORD/ORD by 6015 by 6021 VOC by 6020 Metals 6010 Chloride 300.0 BDOC NM TX				State NM CO UT AZ TX Remarks			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number								
	4/19/2023	SO	1	CB-1A (10 ft)	1		X	X		X			
	4/19/2023	SO	1	CB-1A (15 ft)	2		X	X		X			
	4/19/2023	SO	1	CB-1A (20 ft)	3		X	X		X			
	4/19/2023	SO	1	CB-1A (25 ft)	4		X	X		X			
	4/19/2023	SO	1	CB-1A (30 ft)	5		X	X		X			
	4/19/2023	SO	1	CB-1A (35 ft)	6		X	X		X			
	4/19/2023	SO	1	CB-1A (40 ft)	7		X	X		X			
	4/19/2023	SO	1	CB-1A (45 ft)	8		X	X		X			
	4/19/2023	SO	1	CB-1A (50 ft)	9		X	X		X			
Additional Instructions: Please email results to: amber_griffin@eogresources.com; chase_settle@eogresources.com; jt.murrey@ghd.com; daniel.sparks@ghd.com													
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.							
Relinquished by: (Signature) 		Date: 4-19-23 Time: 4:30		Received by: (Signature) 		Date: 4-19-23 Time: 4:30		Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 T2 T3 AVG Temp °C 4					
Relinquished by: (Signature) 		Date: 4-19-23 Time: 4:30		Received by: (Signature) 		Date: 4/20/23 Time: 8:15							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.													

envirotech

Project Information

Chain of Custody

Page 2 of 3

Client: GHD Project: 12566090 / Jackson B #57 Project Manager: Moshghan Mansoori/ JT Murrey Address: 6121 Indian School Rd. NE St. 200 City, State, Zip: Albuquerque, NM 87110 Phone: +1 (425) 563-6516 Email: Moshghan.mansoori@ghd.com Report due by:				Bill To Attention: EOG Amber Griffin Address: 1045 4th St. City, State, Zip: Artesia, NM 88210 Phone: Email: amber_griffin@eogresources.com				Lab Use Only Lab WO# E 304101				Job Number 19034-0001				TAT 1D 2D 3D X				EPA Program CWA SDWA RCRA			
Analysis and Method										State NM CO UT AZ TX													
TPH GRQ/DNO/ORD by 8015 BTEX by 8021 VOC by 8360 Metals 6010 Chloride 300.0 BDOC NM GDGC TX										Remarks													
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																		
	4/19/2023	SO	1	CB-1A (55 ft)	10		X	X			X												
	4/19/2023	SO	1	CB-1A (65 ft)	11		X	X			X												
	4/19/2023	SO	1	CB-1A (70 ft)	12		X	X			X												
	4/19/2023	SO	1	CB-1A (75 ft)	13		X	X			X												
	4/19/2023	SO	1	CB-1A (60 ft)	14		X	X			X												
	4/19/2023	SO	1	CB-2A (10 ft)	15		X	X			X												
	4/19/2023	SO	1	CB-2A (15 ft)	16		X	X			X												
	4/19/2023	SO	1	CB-2A (20 ft)	17		X	X			X												
	4/19/2023	SO	1	CB-2A (25 ft)	18		X	X			X												
	4/19/2023	SO	1	CB-2A (30 ft)	19		X	X			X												
Additional Instructions: Please email results to: amber_griffin@eogresources.com; chase_settle@eogresources.com; jt.murrey@ghd.com; daniel.sparks@ghd.com.																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.													
Relinquished by: (Signature) <i>D Sparks</i>		Date 4-19-23	Time 4:30	Received by: (Signature) <i>m.aur</i>		Date 4-19-23	Time 4:30	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C 4															
Relinquished by: (Signature) <i>m.aur</i>		Date 4/19/23	Time 4:30	Received by: (Signature) <i>Carth Chet</i>		Date 4/20/23	Time 8:15																
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time																
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA													
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							



envirotech

Chain of Custody

**envirotech**

Envirotech Analytical Laboratory

Printed: 4/20/2023 12:22:41PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	GHD	Date Received:	04/20/23 08:15	Work Order ID:	E304101
Phone:	(505) 884-0672	Date Logged In:	04/20/23 08:38	Logged In By:	Caitlin Christian
Email:	moshghan.mansoori@ghd.com	Due Date:	04/26/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Time sampled not provided on COC per client.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

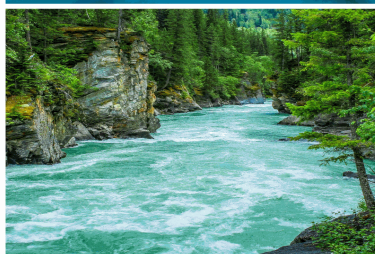
Date



envirotech Inc.

Report to:

Moshghan Mansoori



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

EOG Resources

Project Name: Jackson B#57

Work Order: E211120

Job Number: 19034-0001

Received: 11/18/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/21/22

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.
Envirotech Inc. holds the NM SDWA certification for data reported. (Lab #NM00979)

Date Reported: 11/21/22

Moshghan Mansoori
104 South 4th Street
Artesia, NM 88210



Project Name: Jackson B#57
Workorder: E211120
Date Received: 11/18/2022 10:00:00AM

Moshghan Mansoori,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/18/2022 10:00:00AM, under the Project Name: Jackson B#57.

The analytical test results summarized in this report with the Project Name: Jackson B#57 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area
Lynn Jarboe
Technical Representative/Client Services
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
CB-1-10'	6
CB-1-15'	7
CB-1-20'	8
CB-1-25'	9
CB-1-30'	10
CB-1-35'	11
CB-1-40'	12
CB-1-45'	13
CB-1-50'	14
CB-1-55'	15
CB-1-60'	16
CB-1-65'	17
CB-1-70'	18
CB-1-75'	19
CB-2-10'	20
CB-2-15'	21
CB-2-20'	22
CB-2-25'	23
CB-2-30'	24
CB-2-35'	25

Table of Contents (continued)

CB-2-40'	26
CB-2-45'	27
CB-2-50'	28
QC Summary Data	29
QC - Volatile Organics by EPA 8021B	29
QC - Nonhalogenated Organics by EPA 8015D - GRO	31
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	33
QC - Anions by EPA 300.0/9056A	35
Definitions and Notes	37
Chain of Custody etc.	38

Sample Summary

EOG Resources	Project Name:	Jackson B#57	Reported:
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/22 14:41

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CB-1-10'	E211120-01A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-15'	E211120-02A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-20'	E211120-03A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-25'	E211120-04A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-30'	E211120-05A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-35'	E211120-06A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-40'	E211120-07A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-45'	E211120-08A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-50'	E211120-09A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-55'	E211120-10A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-60'	E211120-11A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-65'	E211120-12A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-70'	E211120-13A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-1-75'	E211120-14A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-2-10'	E211120-15A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-2-15'	E211120-16A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-2-20'	E211120-17A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-2-25'	E211120-18A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-2-30'	E211120-19A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-2-35'	E211120-20A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-2-40'	E211120-21A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-2-45'	E211120-22A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.
CB-2-50'	E211120-23A	Soil	11/15/22	11/18/22	Glass Jar, 4 oz.



Sample Data

EOG Resources 104 South 4th Street Artesia NM, 88210	Project Name: Jackson B#57 Project Number: 19034-0001 Project Manager: Moshghan Mansoori	Reported: 11/21/2022 2:41:29PM
--	--	-----------------------------------

CB-1-10'

E211120-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2247109	
Benzene	ND	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	ND	0.0250	1	11/18/22	11/20/22	
Toluene	0.0277	0.0250	1	11/18/22	11/20/22	
o-Xylene	ND	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	ND	0.0500	1	11/18/22	11/20/22	
Total Xylenes	ND	0.0250	1	11/18/22	11/20/22	
Surrogate: 4-Bromochlorobenzene-PID	104 %	70-130		11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2247109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/22	11/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	77.4 %	70-130		11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2247112	
Diesel Range Organics (C10-C28)	84.0	25.0	1	11/18/22	11/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/18/22	11/19/22	
Surrogate: n-Nonane	115 %	50-200		11/18/22	11/19/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL		Batch: 2247114	
Chloride	242	20.0	1	11/18/22	11/19/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Jackson B#57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
11/21/2022 2:41:29PM

CB-1-15'

E211120-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Benzene	ND	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	ND	0.0250	1	11/18/22	11/20/22	
Toluene	ND	0.0250	1	11/18/22	11/20/22	
o-Xylene	ND	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	ND	0.0500	1	11/18/22	11/20/22	
Total Xylenes	ND	0.0250	1	11/18/22	11/20/22	
Surrogate: 4-Bromochlorobenzene-PID		102 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/22	11/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		83.1 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	107	25.0	1	11/18/22	11/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/18/22	11/19/22	
Surrogate: n-Nonane		106 %	50-200	11/18/22	11/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2247114
Chloride	123	20.0	1	11/18/22	11/19/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Jackson B#57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
11/21/2022 2:41:29PM

CB-1-20'

E211120-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Benzene	ND	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	ND	0.0250	1	11/18/22	11/20/22	
Toluene	ND	0.0250	1	11/18/22	11/20/22	
o-Xylene	ND	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	ND	0.0500	1	11/18/22	11/20/22	
Total Xylenes	ND	0.0250	1	11/18/22	11/20/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/22	11/20/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		80.1 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	ND	25.0	1	11/18/22	11/19/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/18/22	11/19/22	
<i>Surrogate: n-Nonane</i>						
		104 %	50-200	11/18/22	11/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2247114
Chloride	70.1	20.0	1	11/18/22	11/19/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Jackson B#57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
11/21/2022 2:41:29PM

CB-1-25'

E211120-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Benzene	0.254	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	6.52	0.0250	1	11/18/22	11/20/22	
Toluene	4.32	0.0250	1	11/18/22	11/20/22	
o-Xylene	2.70	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	6.54	0.0500	1	11/18/22	11/20/22	
Total Xylenes	9.24	0.0250	1	11/18/22	11/20/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	142	20.0	1	11/18/22	11/20/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		101 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	1660	125	5	11/18/22	11/19/22	
Oil Range Organics (C28-C36)	522	250	5	11/18/22	11/19/22	
<i>Surrogate: n-Nonane</i>						
		124 %	50-200	11/18/22	11/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2247114
Chloride	95.7	20.0	1	11/18/22	11/19/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Jackson B#57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
11/21/2022 2:41:29PM

CB-1-30'

E211120-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Benzene	2.78	0.250	10	11/18/22	11/20/22	
Ethylbenzene	28.2	0.250	10	11/18/22	11/20/22	
Toluene	27.4	0.250	10	11/18/22	11/20/22	
o-Xylene	12.4	0.250	10	11/18/22	11/20/22	
p,m-Xylene	27.8	0.500	10	11/18/22	11/20/22	
Total Xylenes	40.2	0.250	10	11/18/22	11/20/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		111 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	527	200	10	11/18/22	11/20/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		99.1 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	6370	500	20	11/18/22	11/19/22	
Oil Range Organics (C28-C36)	2140	1000	20	11/18/22	11/19/22	
<i>Surrogate: n-Nonane</i>						
		182 %	50-200	11/18/22	11/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2247114
Chloride	40.8	20.0	1	11/18/22	11/19/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Jackson B#57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
11/21/2022 2:41:29PM

CB-1-35'

E211120-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Benzene	2.78	0.250	10	11/18/22	11/20/22	
Ethylbenzene	25.0	0.250	10	11/18/22	11/20/22	
Toluene	24.4	0.250	10	11/18/22	11/20/22	
o-Xylene	11.4	0.250	10	11/18/22	11/20/22	
p,m-Xylene	26.6	0.500	10	11/18/22	11/20/22	
Total Xylenes	37.9	0.250	10	11/18/22	11/20/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		111 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	632	200	10	11/18/22	11/20/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		102 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	4930	500	20	11/18/22	11/19/22	
Oil Range Organics (C28-C36)	1680	1000	20	11/18/22	11/19/22	
<i>Surrogate: n-Nonane</i>						
		154 %	50-200	11/18/22	11/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2247114
Chloride	ND	20.0	1	11/18/22	11/19/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Jackson B#57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
11/21/2022 2:41:29PM

CB-1-40'

E211120-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2247109	
Benzene	2.53	0.250	10	11/18/22	11/21/22	
Ethylbenzene	30.6	0.250	10	11/18/22	11/21/22	
Toluene	23.7	0.250	10	11/18/22	11/21/22	
o-Xylene	13.4	0.250	10	11/18/22	11/21/22	
p,m-Xylene	31.1	0.500	10	11/18/22	11/21/22	
Total Xylenes	44.6	0.250	10	11/18/22	11/21/22	
Surrogate: 4-Bromochlorobenzene-PID		108 %	70-130	11/18/22	11/21/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2247109	
Gasoline Range Organics (C6-C10)	689	200	10	11/18/22	11/21/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID		102 %	70-130	11/18/22	11/21/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2247112	
Diesel Range Organics (C10-C28)	5650	500	20	11/18/22	11/19/22	
Oil Range Organics (C28-C36)	1780	1000	20	11/18/22	11/19/22	
Surrogate: n-Nonane		160 %	50-200	11/18/22	11/19/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL		Batch: 2247114	
Chloride	ND	20.0	1	11/18/22	11/19/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Jackson B#57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
11/21/2022 2:41:29PM

CB-1-45'

E211120-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Benzene	1.25	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	12.1	0.0250	1	11/18/22	11/20/22	
Toluene	12.5	0.0250	1	11/18/22	11/20/22	
o-Xylene	4.33	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	10.4	0.0500	1	11/18/22	11/20/22	
Total Xylenes	14.7	0.0250	1	11/18/22	11/20/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	244	20.0	1	11/18/22	11/20/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		104 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	2320	250	10	11/18/22	11/19/22	
Oil Range Organics (C28-C36)	775	500	10	11/18/22	11/19/22	
<i>Surrogate: n-Nonane</i>						
		139 %	50-200	11/18/22	11/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2247114
Chloride	ND	20.0	1	11/18/22	11/19/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Jackson B#57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
11/21/2022 2:41:29PM

CB-1-50'

E211120-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Benzene	0.959	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	7.56	0.0250	1	11/18/22	11/20/22	
Toluene	8.11	0.0250	1	11/18/22	11/20/22	
o-Xylene	2.63	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	6.55	0.0500	1	11/18/22	11/20/22	
Total Xylenes	9.19	0.0250	1	11/18/22	11/20/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	173	20.0	1	11/18/22	11/20/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		102 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	1690	125	5	11/18/22	11/20/22	
Oil Range Organics (C28-C36)	538	250	5	11/18/22	11/20/22	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	11/18/22	11/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2247114
Chloride	ND	20.0	1	11/18/22	11/19/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Jackson B#57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
11/21/2022 2:41:29PM

CB-1-55'

E211120-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Benzene	0.490	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	5.79	0.0250	1	11/18/22	11/20/22	
Toluene	5.47	0.0250	1	11/18/22	11/20/22	
o-Xylene	2.06	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	5.19	0.0500	1	11/18/22	11/20/22	
Total Xylenes	7.25	0.0250	1	11/18/22	11/20/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	131	20.0	1	11/18/22	11/20/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		99.3 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	1230	125	5	11/18/22	11/20/22	
Oil Range Organics (C28-C36)	419	250	5	11/18/22	11/20/22	
<i>Surrogate: n-Nonane</i>						
		101 %	50-200	11/18/22	11/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2247114
Chloride	ND	20.0	1	11/18/22	11/19/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Jackson B#57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
11/21/2022 2:41:29PM

CB-1-60'

E211120-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Benzene	0.352	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	5.97	0.0250	1	11/18/22	11/20/22	
Toluene	5.08	0.0250	1	11/18/22	11/20/22	
o-Xylene	2.14	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	5.35	0.0500	1	11/18/22	11/20/22	
Total Xylenes	7.49	0.0250	1	11/18/22	11/20/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	130	20.0	1	11/18/22	11/20/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		99.3 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	1020	125	5	11/18/22	11/20/22	
Oil Range Organics (C28-C36)	353	250	5	11/18/22	11/20/22	
<i>Surrogate: n-Nonane</i>						
		107 %	50-200	11/18/22	11/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2247114
Chloride	ND	20.0	1	11/18/22	11/19/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Jackson B#57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
11/21/2022 2:41:29PM

CB-1-65'

E211120-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Benzene	ND	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	0.281	0.0250	1	11/18/22	11/20/22	
Toluene	0.167	0.0250	1	11/18/22	11/20/22	
o-Xylene	0.124	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	0.298	0.0500	1	11/18/22	11/20/22	
Total Xylenes	0.423	0.0250	1	11/18/22	11/20/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/22	11/20/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		99.0 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	187	25.0	1	11/18/22	11/20/22	
Oil Range Organics (C28-C36)	72.4	50.0	1	11/18/22	11/20/22	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	11/18/22	11/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2247114
Chloride	ND	20.0	1	11/18/22	11/19/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Jackson B#57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
11/21/2022 2:41:29PM

CB-1-70'

E211120-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Benzene	ND	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	0.138	0.0250	1	11/18/22	11/20/22	
Toluene	0.0414	0.0250	1	11/18/22	11/20/22	
o-Xylene	0.0643	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	0.125	0.0500	1	11/18/22	11/20/22	
Total Xylenes	0.189	0.0250	1	11/18/22	11/20/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/22	11/20/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		81.0 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	256	25.0	1	11/18/22	11/20/22	
Oil Range Organics (C28-C36)	94.6	50.0	1	11/18/22	11/20/22	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	11/18/22	11/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2247114
Chloride	ND	20.0	1	11/18/22	11/19/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Jackson B#57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
11/21/2022 2:41:29PM

CB-1-75'

E211120-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Benzene	ND	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	0.0932	0.0250	1	11/18/22	11/20/22	
Toluene	0.0258	0.0250	1	11/18/22	11/20/22	
o-Xylene	0.0474	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	0.0999	0.0500	1	11/18/22	11/20/22	
Total Xylenes	0.147	0.0250	1	11/18/22	11/20/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/22	11/20/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.1 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	288	25.0	1	11/18/22	11/20/22	
Oil Range Organics (C28-C36)	119	50.0	1	11/18/22	11/20/22	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	11/18/22	11/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2247114
Chloride	ND	20.0	1	11/18/22	11/19/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Jackson B#57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
11/21/2022 2:41:29PM

CB-2-10'

E211120-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2247109	
Benzene	ND	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	ND	0.0250	1	11/18/22	11/20/22	
Toluene	ND	0.0250	1	11/18/22	11/20/22	
o-Xylene	ND	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	ND	0.0500	1	11/18/22	11/20/22	
Total Xylenes	ND	0.0250	1	11/18/22	11/20/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2247109	
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/22	11/20/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		82.8 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2247112	
Diesel Range Organics (C10-C28)	ND	25.0	1	11/18/22	11/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/18/22	11/20/22	
<i>Surrogate: n-Nonane</i>		104 %	50-200	11/18/22	11/20/22	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: KL		Batch: 2247114	
Chloride	1890	20.0	1	11/18/22	11/19/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Jackson B#57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
11/21/2022 2:41:29PM

CB-2-15'

E211120-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Benzene	ND	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	ND	0.0250	1	11/18/22	11/20/22	
Toluene	ND	0.0250	1	11/18/22	11/20/22	
o-Xylene	ND	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	ND	0.0500	1	11/18/22	11/20/22	
Total Xylenes	ND	0.0250	1	11/18/22	11/20/22	
Surrogate: 4-Bromochlorobenzene-PID	99.3 %	70-130		11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/22	11/20/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	80.1 %	70-130		11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	ND	25.0	1	11/18/22	11/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/18/22	11/20/22	
Surrogate: n-Nonane	109 %	50-200		11/18/22	11/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2247114
Chloride	1230	20.0	1	11/18/22	11/19/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Jackson B#57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
11/21/2022 2:41:29PM

CB-2-20'

E211120-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Benzene	ND	0.0250	1	11/18/22	11/20/22	
Ethylbenzene	ND	0.0250	1	11/18/22	11/20/22	
Toluene	ND	0.0250	1	11/18/22	11/20/22	
o-Xylene	ND	0.0250	1	11/18/22	11/20/22	
p,m-Xylene	ND	0.0500	1	11/18/22	11/20/22	
Total Xylenes	ND	0.0250	1	11/18/22	11/20/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/18/22	11/20/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.7 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	ND	25.0	1	11/18/22	11/20/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/18/22	11/20/22	
<i>Surrogate: n-Nonane</i>						
		101 %	50-200	11/18/22	11/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2247114
Chloride	3740	40.0	2	11/18/22	11/19/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Jackson B#57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
11/21/2022 2:41:29PM

CB-2-25'

E211120-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Benzene	16.0	0.250	10	11/18/22	11/20/22	
Ethylbenzene	63.8	0.250	10	11/18/22	11/20/22	
Toluene	79.3	0.250	10	11/18/22	11/20/22	
o-Xylene	21.7	0.250	10	11/18/22	11/20/22	
p,m-Xylene	52.8	0.500	10	11/18/22	11/20/22	
Total Xylenes	74.5	0.250	10	11/18/22	11/20/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	1200	200	10	11/18/22	11/20/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.9 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	8700	500	20	11/18/22	11/20/22	
Oil Range Organics (C28-C36)	2840	1000	20	11/18/22	11/20/22	
<i>Surrogate: n-Nonane</i>						
		240 %	50-200	11/18/22	11/20/22	S4
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2247114
Chloride	739	20.0	1	11/18/22	11/19/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Jackson B#57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
11/21/2022 2:41:29PM

CB-2-30'

E211120-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Benzene	2.65	0.250	10	11/18/22	11/20/22	
Ethylbenzene	31.9	0.250	10	11/18/22	11/20/22	
Toluene	26.0	0.250	10	11/18/22	11/20/22	
o-Xylene	12.3	0.250	10	11/18/22	11/20/22	
p,m-Xylene	30.0	0.500	10	11/18/22	11/20/22	
Total Xylenes	42.3	0.250	10	11/18/22	11/20/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	710	200	10	11/18/22	11/20/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.5 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	5450	500	20	11/18/22	11/20/22	
Oil Range Organics (C28-C36)	1780	1000	20	11/18/22	11/20/22	
<i>Surrogate: n-Nonane</i>						
		162 %	50-200	11/18/22	11/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2247114
Chloride	1120	20.0	1	11/18/22	11/19/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Jackson B#57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
11/21/2022 2:41:29PM

CB-2-35'

E211120-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Benzene	5.21	0.250	10	11/18/22	11/20/22	
Ethylbenzene	36.9	0.250	10	11/18/22	11/20/22	
Toluene	37.1	0.250	10	11/18/22	11/20/22	
o-Xylene	13.7	0.250	10	11/18/22	11/20/22	
p,m-Xylene	33.4	0.500	10	11/18/22	11/20/22	
Total Xylenes	47.1	0.250	10	11/18/22	11/20/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2247109
Gasoline Range Organics (C6-C10)	801	200	10	11/18/22	11/20/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.1 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2247112
Diesel Range Organics (C10-C28)	5800	500	20	11/18/22	11/20/22	
Oil Range Organics (C28-C36)	1900	1000	20	11/18/22	11/20/22	
<i>Surrogate: n-Nonane</i>						
		167 %	50-200	11/18/22	11/20/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2247114
Chloride	1520	20.0	1	11/18/22	11/19/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Jackson B#57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
11/21/2022 2:41:29PM

CB-2-40'

E211120-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2247076	
Benzene	4.12	0.250	10	11/18/22	11/20/22	
Ethylbenzene	19.7	0.250	10	11/18/22	11/20/22	
Toluene	24.8	0.250	10	11/18/22	11/20/22	
o-Xylene	6.91	0.250	10	11/18/22	11/20/22	
p,m-Xylene	17.3	0.500	10	11/18/22	11/20/22	
Total Xylenes	24.2	0.250	10	11/18/22	11/20/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2247076	
Gasoline Range Organics (C6-C10)	423	200	10	11/18/22	11/20/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.2 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2247111	
Diesel Range Organics (C10-C28)	3060	250	10	11/18/22	11/19/22	
Oil Range Organics (C28-C36)	1410	500	10	11/18/22	11/19/22	
<i>Surrogate: n-Nonane</i>						
		132 %	50-200	11/18/22	11/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2247115	
Chloride	6280	100	5	11/18/22	11/19/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Jackson B#57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
11/21/2022 2:41:29PM

CB-2-45'

E211120-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2247076	
Benzene	15.9	0.250	10	11/18/22	11/20/22	
Ethylbenzene	52.9	0.250	10	11/18/22	11/20/22	
Toluene	61.3	0.250	10	11/18/22	11/20/22	
o-Xylene	18.7	0.250	10	11/18/22	11/20/22	
p,m-Xylene	44.4	0.500	10	11/18/22	11/20/22	
Total Xylenes	63.1	0.250	10	11/18/22	11/20/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2247076	
Gasoline Range Organics (C6-C10)	1040	200	10	11/18/22	11/20/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.3 %	70-130	11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2247111	
Diesel Range Organics (C10-C28)	11300	1250	50	11/18/22	11/20/22	
Oil Range Organics (C28-C36)	5050	2500	50	11/18/22	11/20/22	
<i>Surrogate: n-Nonane</i>						
		244 %	50-200	11/18/22	11/20/22	S4
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2247115	
Chloride	525	20.0	1	11/18/22	11/19/22	



Sample Data

EOG Resources
104 South 4th Street
Artesia NM, 88210

Project Name: Jackson B#57
Project Number: 19034-0001
Project Manager: Moshghan Mansoori

Reported:
11/21/2022 2:41:29PM

CB-2-50'

E211120-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2247076	
Benzene	7.24	0.250	10	11/18/22	11/20/22	
Ethylbenzene	27.4	0.250	10	11/18/22	11/20/22	
Toluene	34.1	0.250	10	11/18/22	11/20/22	
o-Xylene	9.27	0.250	10	11/18/22	11/20/22	
p,m-Xylene	22.1	0.500	10	11/18/22	11/20/22	
Total Xylenes	31.4	0.250	10	11/18/22	11/20/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	106 %	70-130		11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2247076	
Gasoline Range Organics (C6-C10)	524	200	10	11/18/22	11/20/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.2 %	70-130		11/18/22	11/20/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2247111	
Diesel Range Organics (C10-C28)	5280	500	20	11/18/22	11/19/22	
Oil Range Organics (C28-C36)	2790	1000	20	11/18/22	11/19/22	
<i>Surrogate: n-Nonane</i>						
	166 %	50-200		11/18/22	11/19/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: KL		Batch: 2247115	
Chloride	188	20.0	1	11/18/22	11/19/22	



QC Summary Data

EOG Resources	Project Name:	Jackson B#57	Reported:
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2247076-BLK1)

Prepared: 11/17/22 Analyzed: 11/18/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.23		8.00		103	70-130			

LCS (2247076-BS1)

Prepared: 11/17/22 Analyzed: 11/18/22

Benzene	5.93	0.0250	5.00		119	70-130			
Ethylbenzene	4.57	0.0250	5.00		91.3	70-130			
Toluene	4.96	0.0250	5.00		99.2	70-130			
o-Xylene	4.63	0.0250	5.00		92.7	70-130			
p,m-Xylene	9.26	0.0500	10.0		92.6	70-130			
Total Xylenes	13.9	0.0250	15.0		92.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.32		8.00		104	70-130			

LCS Dup (2247076-BSD1)

Prepared: 11/17/22 Analyzed: 11/18/22

Benzene	5.91	0.0250	5.00		118	70-130	0.325	20	
Ethylbenzene	4.57	0.0250	5.00		91.5	70-130	0.161	20	
Toluene	4.93	0.0250	5.00		98.7	70-130	0.557	20	
o-Xylene	4.67	0.0250	5.00		93.4	70-130	0.819	20	
p,m-Xylene	9.28	0.0500	10.0		92.8	70-130	0.221	20	
Total Xylenes	14.0	0.0250	15.0		93.0	70-130	0.421	20	
Surrogate: 4-Bromochlorobenzene-PID	8.41		8.00		105	70-130			



QC Summary Data

EOG Resources	Project Name:	Jackson B#57	Reported:
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2247109-BLK1)

Prepared: 11/18/22 Analyzed: 11/19/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.19		8.00		102	70-130			

LCS (2247109-BS1)

Prepared: 11/18/22 Analyzed: 11/19/22

Benzene	6.10	0.0250	5.00		122	70-130			
Ethylbenzene	4.74	0.0250	5.00		94.7	70-130			
Toluene	5.09	0.0250	5.00		102	70-130			
o-Xylene	4.81	0.0250	5.00		96.3	70-130			
p,m-Xylene	9.65	0.0500	10.0		96.5	70-130			
Total Xylenes	14.5	0.0250	15.0		96.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.24		8.00		103	70-130			

LCS Dup (2247109-BSD1)

Prepared: 11/18/22 Analyzed: 11/19/22

Benzene	6.21	0.0250	5.00		124	70-130	1.65	20	
Ethylbenzene	4.83	0.0250	5.00		96.6	70-130	1.91	20	
Toluene	5.18	0.0250	5.00		104	70-130	1.75	20	
o-Xylene	4.91	0.0250	5.00		98.2	70-130	2.02	20	
p,m-Xylene	9.83	0.0500	10.0		98.3	70-130	1.86	20	
Total Xylenes	14.7	0.0250	15.0		98.3	70-130	1.92	20	
Surrogate: 4-Bromochlorobenzene-PID	8.16		8.00		102	70-130			



QC Summary Data

EOG Resources	Project Name:	Jackson B#57	Reported:
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2247076-BLK1) Prepared: 11/17/22 Analyzed: 11/18/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.50		8.00		81.2	70-130			

LCS (2247076-BS2) Prepared: 11/17/22 Analyzed: 11/18/22

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0		95.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.48		8.00		80.9	70-130			

LCS Dup (2247076-BSD2) Prepared: 11/17/22 Analyzed: 11/18/22

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0		97.7	70-130	2.09	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.60		8.00		82.5	70-130			



QC Summary Data

EOG Resources	Project Name:	Jackson B#57	Reported:
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2247109-BLK1) Prepared: 11/18/22 Analyzed: 11/19/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.52		8.00		81.5	70-130			

LCS (2247109-BS2) Prepared: 11/18/22 Analyzed: 11/19/22

Gasoline Range Organics (C6-C10)	49.0	20.0	50.0		98.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.36		8.00		79.5	70-130			

LCS Dup (2247109-BSD2) Prepared: 11/18/22 Analyzed: 11/19/22

Gasoline Range Organics (C6-C10)	48.4	20.0	50.0		96.7	70-130	1.34	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.72		8.00		84.1	70-130			



QC Summary Data

EOG Resources	Project Name:	Jackson B#57	Reported:
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2247111-BLK1)					Prepared: 11/18/22 Analyzed: 11/19/22				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.2		50.0		106	50-200			

LCS (2247111-BS1)					Prepared: 11/18/22 Analyzed: 11/19/22				
Diesel Range Organics (C10-C28)	271	25.0	250		108	38-132			
Surrogate: n-Nonane	52.5		50.0		105	50-200			

Matrix Spike (2247111-MS1)					Source: E211121-05		Prepared: 11/18/22 Analyzed: 11/19/22		
Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	52.7		50.0		105	50-200			

Matrix Spike Dup (2247111-MSD1)					Source: E211121-05		Prepared: 11/18/22 Analyzed: 11/19/22		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	0.963	20	
Surrogate: n-Nonane	51.2		50.0		102	50-200			



QC Summary Data

EOG Resources	Project Name:	Jackson B#57	Reported:
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2247112-BLK1)					Prepared: 11/18/22 Analyzed: 11/19/22				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.7		50.0		95.3	50-200			

LCS (2247112-BS1)					Prepared: 11/18/22 Analyzed: 11/19/22				
Diesel Range Organics (C10-C28)	241	25.0	250		96.5	38-132			
Surrogate: n-Nonane	48.0		50.0		95.9	50-200			

Matrix Spike (2247112-MS1)					Source: E211120-08		Prepared: 11/18/22 Analyzed: 11/20/22		
Diesel Range Organics (C10-C28)	2800	250	250	2320	191	38-132			M2
Surrogate: n-Nonane	55.8		50.0		112	50-200			

Matrix Spike Dup (2247112-MSD1)					Source: E211120-08		Prepared: 11/18/22 Analyzed: 11/20/22		
Diesel Range Organics (C10-C28)	3010	250	250	2320	274	38-132	7.20	20	M2
Surrogate: n-Nonane	62.2		50.0		124	50-200			



QC Summary Data

EOG Resources	Project Name:	Jackson B#57	Reported:
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2247114-BLK1)					Prepared: 11/18/22 Analyzed: 11/19/22				
Chloride	ND	20.0							
LCS (2247114-BS1)					Prepared: 11/18/22 Analyzed: 11/19/22				
Chloride	265	20.0	250		106	90-110			
Matrix Spike (2247114-MS1)					Source: E211120-01		Prepared: 11/18/22 Analyzed: 11/19/22		
Chloride	506	20.0	250	242	105	80-120			
Matrix Spike Dup (2247114-MSD1)					Source: E211120-01		Prepared: 11/18/22 Analyzed: 11/19/22		
Chloride	508	20.0	250	242	106	80-120	0.418	20	



QC Summary Data

EOG Resources	Project Name:	Jackson B#57	Reported:
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/2022 2:41:29PM

Anions by EPA 300.0/9056A

Analyst: KL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2247115-BLK1)					Prepared: 11/18/22 Analyzed: 11/19/22				
Chloride	ND	20.0							
LCS (2247115-BS1)					Prepared: 11/18/22 Analyzed: 11/19/22				
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2247115-MS1)					Source: E211110-01		Prepared: 11/18/22 Analyzed: 11/19/22		
Chloride	267	20.0	250	ND	107	80-120			
Matrix Spike Dup (2247115-MSD1)					Source: E211110-01		Prepared: 11/18/22 Analyzed: 11/19/22		
Chloride	265	20.0	250	ND	106	80-120	0.601	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

EOG Resources	Project Name:	Jackson B#57	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Moshghan Mansoori	11/21/22 14:41

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- S4 Surrogate spike recovery was outside acceptance limits. Sample was reanalyzed with similar results. LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

$\frac{1}{3}$

envirotech-inc.com
laboratory@envirotech-inc.com

2/3

Client: EOG Resources

Project: Jackson B#57

Sampler: J.T. Murrey

Phone: 361-252-6136

Email(s): moshghan.mansoori@ghd.com; amber_griffin@eogresources.com; chase_settle@eogresources.com

Project Manager: Moshghan Mansoori

RUSH?

☐ 1d
☒ 3d

Lab Use Only		Analysis and Method						Lab Only		
Lab WO#		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0				Lab Number	Correct Cont/Prsrv (s) Y/N
Job Number										

Page of

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0								Lab Number	Correct Cont/Prsrv (s) Y/N
CB-1-60'	11/15/2022	11:18	SO	1 - 4 OZ/GLASS/NON	X	X		X								11	
CB-1-65'	11/15/2022	11:18	SO	1 - 4 OZ/GLASS/NON	X	X		X								12	
CB-1-70'	11/15/2022	11:18	SO	1 - 4 OZ/GLASS/NON	X	X		X								13	
CB-1-75'	11/15/2022	11:19	SO	1 - 4 OZ/GLASS/NON	X	X		X								14	
CB-2-10'	11/15/2022	10:43	SO	1 - 4 OZ/GLASS/NON	X	X		X								15	
CB-2-15'	11/15/2022	10:45	SO	1 - 4 OZ/GLASS/NON	X	X		X								16	
CB-2-20'	11/15/2022	10:45	SO	1 - 4 OZ/GLASS/NON	X	X		X								17	
CB-2-25'	11/15/2022	10:46	SO	1 - 4 OZ/GLASS/NON	X	X		X								18	
CB-2-30'	11/15/2022	10:47	SO	1 - 4 OZ/GLASS/NON	X	X		X								19	
CB-2-35'	11/15/2022	10:47	SO	1 - 4 OZ/GLASS/NON	X	X		X								20	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only		
	11-16-22	3:40		11/18/22	10:00	**Received on Ice Y N T1 _____ T2 _____ T3 _____ AVG Temp °C 4		

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg. temp above 0 but less than 6°C on subsequent days.

Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing info:



5796 US Highway 64, Farmington, NM 87401
Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865
Ph (970) 259-0615 Fx (800) 362-1879



3/3

envirotech-inc.com
laboratory@envirotech-inc.com

Envirotech Analytical Laboratory

Printed: 11/18/2022 10:21:26AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	EOG Resources	Date Received:	11/18/22 10:00	Work Order ID:	E211120
Phone:	(575) 748-4217	Date Logged In:	11/18/22 09:59	Logged In By:	Alexa Michaels
Email:		Due Date:	11/21/22 17:00 (1 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Fed Ex**Comments/Resolution****Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

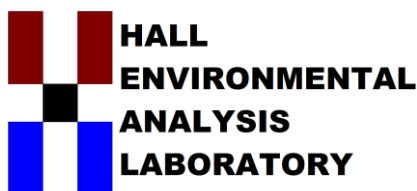
Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



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

January 21, 2022

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

RE: Jackson B 57

OrderNo.: 2201360

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 23 sample(s) on 1/11/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com 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 2201360

Date Reported: 1/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: A1-10

Project: Jackson B 57

Collection Date: 1/6/2022 8:20:00 AM

Lab ID: 2201360-001

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	86	60		mg/Kg	20	1/11/2022 10:10:02 PM	64966
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	3800	170		mg/Kg	20	1/12/2022 11:24:39 AM	64960
Motor Oil Range Organics (MRO)	1200	850		mg/Kg	20	1/12/2022 11:24:39 AM	64960
Surr: DNOP	0	70-130	S	%Rec	20	1/12/2022 11:24:39 AM	64960
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	1200	24		mg/Kg	5	1/12/2022 9:12:54 AM	64950
Surr: BFB	1110	70-130	S	%Rec	5	1/12/2022 9:12:54 AM	64950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	3.3	0.12		mg/Kg	5	1/12/2022 9:12:54 AM	64950
Toluene	64	2.4		mg/Kg	50	1/12/2022 9:21:32 PM	64950
Ethylbenzene	59	2.4		mg/Kg	50	1/12/2022 9:21:32 PM	64950
Xylenes, Total	68	0.49		mg/Kg	5	1/12/2022 9:12:54 AM	64950
Surr: 4-Bromofluorobenzene	304	70-130	S	%Rec	5	1/12/2022 9:12:54 AM	64950

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

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

Page 1 of 27

Analytical Report

Lab Order 2201360

Date Reported: 1/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: A1-15

Project: Jackson B 57

Collection Date: 1/6/2022 8:30:00 AM

Lab ID: 2201360-002

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	73	60		mg/Kg	20	1/12/2022 8:15:13 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	3700	190		mg/Kg	20	1/13/2022 12:47:09 PM	64960
Motor Oil Range Organics (MRO)	1100	970		mg/Kg	20	1/13/2022 12:47:09 PM	64960
Surr: DNOP	0	70-130	S	%Rec	20	1/13/2022 12:47:09 PM	64960
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	1100	24		mg/Kg	5	1/12/2022 10:00:12 AM	64950
Surr: BFB	953	70-130	S	%Rec	5	1/12/2022 10:00:12 AM	64950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	5.2	0.12		mg/Kg	5	1/12/2022 10:00:12 AM	64950
Toluene	68	2.4		mg/Kg	50	1/12/2022 9:44:56 PM	64950
Ethylbenzene	56	2.4		mg/Kg	50	1/12/2022 9:44:56 PM	64950
Xylenes, Total	61	0.48		mg/Kg	5	1/12/2022 10:00:12 AM	64950
Surr: 4-Bromofluorobenzene	284	70-130	S	%Rec	5	1/12/2022 10:00:12 AM	64950

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

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

Page 2 of 27

Analytical Report

Lab Order 2201360

Date Reported: 1/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: A1-20

Project: Jackson B 57

Collection Date: 1/6/2022 8:35:00 AM

Lab ID: 2201360-003

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	79	60		mg/Kg	20	1/12/2022 8:52:27 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	6600	190		mg/Kg	20	1/13/2022 1:10:55 PM	64960
Motor Oil Range Organics (MRO)	2200	940		mg/Kg	20	1/13/2022 1:10:55 PM	64960
Surr: DNOP	0	70-130	S	%Rec	20	1/13/2022 1:10:55 PM	64960
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	1800	23		mg/Kg	5	1/12/2022 10:47:04 AM	64950
Surr: BFB	1660	70-130	S	%Rec	5	1/12/2022 10:47:04 AM	64950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	6.1	0.11		mg/Kg	5	1/12/2022 10:47:04 AM	64950
Toluene	96	2.3		mg/Kg	50	1/12/2022 10:08:18 PM	64950
Ethylbenzene	89	2.3		mg/Kg	50	1/12/2022 10:08:18 PM	64950
Xylenes, Total	97	4.6		mg/Kg	50	1/12/2022 10:08:18 PM	64950
Surr: 4-Bromofluorobenzene	390	70-130	S	%Rec	5	1/12/2022 10:47:04 AM	64950

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

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

Page 3 of 27

Analytical Report

Lab Order 2201360

Date Reported: 1/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: A1-25

Project: Jackson B 57

Collection Date: 1/6/2022 8:45:00 AM

Lab ID: 2201360-004

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2000	60		mg/Kg	20	1/12/2022 9:04:51 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	4500	190		mg/Kg	20	1/13/2022 1:34:50 PM	64960
Motor Oil Range Organics (MRO)	1600	960		mg/Kg	20	1/13/2022 1:34:50 PM	64960
Surr: DNOP	0	70-130	S	%Rec	20	1/13/2022 1:34:50 PM	64960
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	1400	25		mg/Kg	5	1/12/2022 11:10:34 AM	64950
Surr: BFB	1000	70-130	S	%Rec	5	1/12/2022 11:10:34 AM	64950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	14	0.12		mg/Kg	5	1/12/2022 11:10:34 AM	64950
Toluene	99	2.5		mg/Kg	50	1/12/2022 10:31:35 PM	64950
Ethylbenzene	68	2.5		mg/Kg	50	1/12/2022 10:31:35 PM	64950
Xylenes, Total	67	4.9		mg/Kg	50	1/12/2022 10:31:35 PM	64950
Surr: 4-Bromofluorobenzene	294	70-130	S	%Rec	5	1/12/2022 11:10:34 AM	64950

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

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

Analytical Report

Lab Order 2201360

Date Reported: 1/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: A1-30

Project: Jackson B 57

Collection Date: 1/6/2022 8:55:00 AM

Lab ID: 2201360-005

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2000	60		mg/Kg	20	1/12/2022 9:17:16 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	3900	190		mg/Kg	20	1/13/2022 1:58:45 PM	64960
Motor Oil Range Organics (MRO)	1400	940		mg/Kg	20	1/13/2022 1:58:45 PM	64960
Surr: DNOP	0	70-130	S	%Rec	20	1/13/2022 1:58:45 PM	64960
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	1100	23		mg/Kg	5	1/12/2022 11:34:06 AM	64950
Surr: BFB	1080	70-130	S	%Rec	5	1/12/2022 11:34:06 AM	64950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	2.9	0.11		mg/Kg	5	1/12/2022 11:34:06 AM	64950
Toluene	68	2.3		mg/Kg	50	1/12/2022 10:54:55 PM	64950
Ethylbenzene	61	2.3		mg/Kg	50	1/12/2022 10:54:55 PM	64950
Xylenes, Total	64	0.46		mg/Kg	5	1/12/2022 11:34:06 AM	64950
Surr: 4-Bromofluorobenzene	295	70-130	S	%Rec	5	1/12/2022 11:34:06 AM	64950

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

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

Page 5 of 27

Analytical Report

Lab Order 2201360

Date Reported: 1/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: A1-35

Project: Jackson B 57

Collection Date: 1/6/2022 9:05:00 AM

Lab ID: 2201360-006

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	840	60		mg/Kg	20	1/12/2022 9:54:30 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	4800	170		mg/Kg	20	1/13/2022 2:22:47 PM	64960
Motor Oil Range Organics (MRO)	1700	870		mg/Kg	20	1/13/2022 2:22:47 PM	64960
Surr: DNOP	0	70-130	S	%Rec	20	1/13/2022 2:22:47 PM	64960
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	1300	24		mg/Kg	5	1/12/2022 11:57:37 AM	64950
Surr: BFB	1140	70-130	S	%Rec	5	1/12/2022 11:57:37 AM	64950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	5.5	0.12		mg/Kg	5	1/12/2022 11:57:37 AM	64950
Toluene	82	2.4		mg/Kg	50	1/12/2022 11:18:10 PM	64950
Ethylbenzene	66	2.4		mg/Kg	50	1/12/2022 11:18:10 PM	64950
Xylenes, Total	70	4.7		mg/Kg	50	1/12/2022 11:18:10 PM	64950
Surr: 4-Bromofluorobenzene	297	70-130	S	%Rec	5	1/12/2022 11:57:37 AM	64950

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

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

Analytical Report

Lab Order 2201360

Date Reported: 1/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: A1-40

Project: Jackson B 57

Collection Date: 1/6/2022 9:15:00 AM

Lab ID: 2201360-007

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1100	60		mg/Kg	20	1/12/2022 10:06:54 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	3200	190		mg/Kg	20	1/13/2022 2:46:48 PM	64960
Motor Oil Range Organics (MRO)	1200	970		mg/Kg	20	1/13/2022 2:46:48 PM	64960
Surr: DNOP	0	70-130	S	%Rec	20	1/13/2022 2:46:48 PM	64960
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	950	24		mg/Kg	5	1/12/2022 12:21:13 PM	64950
Surr: BFB	867	70-130	S	%Rec	5	1/12/2022 12:21:13 PM	64950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	3.1	0.12		mg/Kg	5	1/12/2022 12:21:13 PM	64950
Toluene	61	2.4		mg/Kg	50	1/12/2022 11:41:25 PM	64950
Ethylbenzene	52	2.4		mg/Kg	50	1/12/2022 11:41:25 PM	64950
Xylenes, Total	52	0.49		mg/Kg	5	1/12/2022 12:21:13 PM	64950
Surr: 4-Bromofluorobenzene	252	70-130	S	%Rec	5	1/12/2022 12:21:13 PM	64950

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

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

Analytical Report

Lab Order 2201360

Date Reported: 1/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: A1-45

Project: Jackson B 57

Collection Date: 1/6/2022 9:25:00 AM

Lab ID: 2201360-008

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/12/2022 10:19:19 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	4300	89		mg/Kg	10	1/13/2022 3:59:49 PM	64960
Motor Oil Range Organics (MRO)	1400	450		mg/Kg	10	1/13/2022 3:59:49 PM	64960
Surr: DNOP	0	70-130	S	%Rec	10	1/13/2022 3:59:49 PM	64960
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	2500	240		mg/Kg	50	1/13/2022 12:04:36 AM	64950
Surr: BFB	232	70-130	S	%Rec	50	1/13/2022 12:04:36 AM	64950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	52	1.2		mg/Kg	50	1/13/2022 12:04:36 AM	64950
Toluene	170	2.4		mg/Kg	50	1/13/2022 12:04:36 AM	64950
Ethylbenzene	95	2.4		mg/Kg	50	1/13/2022 12:04:36 AM	64950
Xylenes, Total	93	4.8		mg/Kg	50	1/13/2022 12:04:36 AM	64950
Surr: 4-Bromofluorobenzene	133	70-130	S	%Rec	50	1/13/2022 12:04:36 AM	64950

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

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

Page 8 of 27

Analytical Report

Lab Order 2201360

Date Reported: 1/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: A1-50

Project: Jackson B 57

Collection Date: 1/6/2022 9:35:00 AM

Lab ID: 2201360-009

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/12/2022 10:31:43 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	8700	190		mg/Kg	20	1/13/2022 3:10:48 PM	64960
Motor Oil Range Organics (MRO)	3000	950		mg/Kg	20	1/13/2022 3:10:48 PM	64960
Surr: DNOP	0	70-130	S	%Rec	20	1/13/2022 3:10:48 PM	64960
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	2700	240		mg/Kg	50	1/13/2022 12:27:44 AM	64950
Surr: BFB	278	70-130	S	%Rec	50	1/13/2022 12:27:44 AM	64950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	25	1.2		mg/Kg	50	1/13/2022 12:27:44 AM	64950
Toluene	180	2.4		mg/Kg	50	1/13/2022 12:27:44 AM	64950
Ethylbenzene	120	2.4		mg/Kg	50	1/13/2022 12:27:44 AM	64950
Xylenes, Total	140	4.9		mg/Kg	50	1/13/2022 12:27:44 AM	64950
Surr: 4-Bromofluorobenzene	142	70-130	S	%Rec	50	1/13/2022 12:27:44 AM	64950

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

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

Page 9 of 27

Analytical Report

Lab Order 2201360

Date Reported: 1/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: A1-55

Project: Jackson B 57

Collection Date: 1/6/2022 9:45:00 AM

Lab ID: 2201360-010

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	61		mg/Kg	20	1/12/2022 10:44:08 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	1600	95		mg/Kg	10	1/14/2022 9:29:40 AM	64960
Motor Oil Range Organics (MRO)	560	470		mg/Kg	10	1/14/2022 9:29:40 AM	64960
Surr: DNOP	0	70-130	S	%Rec	10	1/14/2022 9:29:40 AM	64960
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	740	24		mg/Kg	5	1/12/2022 1:31:46 PM	64950
Surr: BFB	782	70-130	S	%Rec	5	1/12/2022 1:31:46 PM	64950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	2.1	0.12		mg/Kg	5	1/12/2022 1:31:46 PM	64950
Toluene	37	2.4		mg/Kg	50	1/13/2022 12:50:58 AM	64950
Ethylbenzene	35	2.4		mg/Kg	50	1/13/2022 12:50:58 AM	64950
Xylenes, Total	40	0.49		mg/Kg	5	1/12/2022 1:31:46 PM	64950
Surr: 4-Bromofluorobenzene	225	70-130	S	%Rec	5	1/12/2022 1:31:46 PM	64950

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

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

Page 10 of 27

Analytical Report

Lab Order 2201360

Date Reported: 1/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: A1-60

Project: Jackson B 57

Collection Date: 1/6/2022 9:55:00 AM

Lab ID: 2201360-011

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/12/2022 10:56:33 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	13	10		mg/Kg	1	1/12/2022 11:49:13 AM	64960
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/12/2022 11:49:13 AM	64960
Surr: DNOP	83.5	70-130		%Rec	1	1/12/2022 11:49:13 AM	64960
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	23		mg/Kg	5	1/12/2022 3:05:36 PM	64950
Surr: BFB	96.8	70-130		%Rec	5	1/12/2022 3:05:36 PM	64950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.31	0.11		mg/Kg	5	1/12/2022 3:05:36 PM	64950
Toluene	0.26	0.23		mg/Kg	5	1/12/2022 3:05:36 PM	64950
Ethylbenzene	ND	0.23		mg/Kg	5	1/12/2022 3:05:36 PM	64950
Xylenes, Total	ND	0.46		mg/Kg	5	1/12/2022 3:05:36 PM	64950
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	5	1/12/2022 3:05:36 PM	64950

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

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

Page 11 of 27

Analytical Report

Lab Order 2201360

Date Reported: 1/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: A1-65

Project: Jackson B 57

Collection Date: 1/6/2022 10:05:00 AM

Lab ID: 2201360-012

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/12/2022 11:08:58 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	11	10		mg/Kg	1	1/12/2022 12:01:09 PM	64960
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/12/2022 12:01:09 PM	64960
Surr: DNOP	103	70-130		%Rec	1	1/12/2022 12:01:09 PM	64960
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	1/12/2022 3:29:11 PM	64950
Surr: BFB	98.8	70-130		%Rec	5	1/12/2022 3:29:11 PM	64950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	1/12/2022 3:29:11 PM	64950
Toluene	ND	0.24		mg/Kg	5	1/12/2022 3:29:11 PM	64950
Ethylbenzene	ND	0.24		mg/Kg	5	1/12/2022 3:29:11 PM	64950
Xylenes, Total	ND	0.48		mg/Kg	5	1/12/2022 3:29:11 PM	64950
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	5	1/12/2022 3:29:11 PM	64950

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

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

Page 12 of 27

Analytical Report

Lab Order 2201360

Date Reported: 1/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: A1-70

Project: Jackson B 57

Collection Date: 1/6/2022 10:10:00 AM

Lab ID: 2201360-013

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/12/2022 11:21:23 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/12/2022 12:13:12 PM	64960
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2022 12:13:12 PM	64960
Surr: DNOP	86.5	70-130		%Rec	1	1/12/2022 12:13:12 PM	64960
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	1/12/2022 3:52:48 PM	64950
Surr: BFB	99.4	70-130		%Rec	5	1/12/2022 3:52:48 PM	64950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	1/12/2022 3:52:48 PM	64950
Toluene	ND	0.25		mg/Kg	5	1/12/2022 3:52:48 PM	64950
Ethylbenzene	ND	0.25		mg/Kg	5	1/12/2022 3:52:48 PM	64950
Xylenes, Total	ND	0.49		mg/Kg	5	1/12/2022 3:52:48 PM	64950
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	5	1/12/2022 3:52:48 PM	64950

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

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

Page 13 of 27

Analytical Report

Lab Order 2201360

Date Reported: 1/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: A1-75

Project: Jackson B 57

Collection Date: 1/6/2022 10:30:00 AM

Lab ID: 2201360-014

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	210	61		mg/Kg	20	1/12/2022 11:33:48 PM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1700	96		mg/Kg	10	1/18/2022 10:37:58 AM	64960
Motor Oil Range Organics (MRO)	620	480		mg/Kg	10	1/18/2022 10:37:58 AM	64960
Surr: DNOP	0	70-130	S	%Rec	10	1/18/2022 10:37:58 AM	64960
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	200	24		mg/Kg	5	1/12/2022 4:16:31 PM	64950
Surr: BFB	364	70-130	S	%Rec	5	1/12/2022 4:16:31 PM	64950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.22	0.12		mg/Kg	5	1/12/2022 4:16:31 PM	64950
Toluene	4.1	0.24		mg/Kg	5	1/12/2022 4:16:31 PM	64950
Ethylbenzene	8.3	0.24		mg/Kg	5	1/12/2022 4:16:31 PM	64950
Xylenes, Total	11	0.48		mg/Kg	5	1/12/2022 4:16:31 PM	64950
Surr: 4-Bromofluorobenzene	149	70-130	S	%Rec	5	1/12/2022 4:16:31 PM	64950

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

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

Page 14 of 27

Analytical Report

Lab Order 2201360

Date Reported: 1/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: A2-10

Project: Jackson B 57

Collection Date: 1/6/2022 11:10:00 AM

Lab ID: 2201360-015

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	18000	600		mg/Kg	200	1/15/2022 12:21:15 AM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	13	8.7		mg/Kg	1	1/12/2022 12:25:15 PM	64960
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	1/12/2022 12:25:15 PM	64960
Surr: DNOP	87.3	70-130		%Rec	1	1/12/2022 12:25:15 PM	64960
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	1/12/2022 4:40:13 PM	64950
Surr: BFB	101	70-130		%Rec	5	1/12/2022 4:40:13 PM	64950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.12		mg/Kg	5	1/12/2022 4:40:13 PM	64950
Toluene	ND	0.24		mg/Kg	5	1/12/2022 4:40:13 PM	64950
Ethylbenzene	ND	0.24		mg/Kg	5	1/12/2022 4:40:13 PM	64950
Xylenes, Total	ND	0.48		mg/Kg	5	1/12/2022 4:40:13 PM	64950
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	5	1/12/2022 4:40:13 PM	64950

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

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

Page 15 of 27

Analytical Report

Lab Order 2201360

Date Reported: 1/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: A2-15

Project: Jackson B 57

Collection Date: 1/6/2022 11:20:00 AM

Lab ID: 2201360-016

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	4500	150		mg/Kg	50	1/15/2022 12:33:36 AM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	1900	91		mg/Kg	10	1/18/2022 11:02:08 AM	64960
Motor Oil Range Organics (MRO)	670	450		mg/Kg	10	1/18/2022 11:02:08 AM	64960
Surr: DNOP	0	70-130	S	%Rec	10	1/18/2022 11:02:08 AM	64960
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	290	23		mg/Kg	5	1/12/2022 5:03:43 PM	64950
Surr: BFB	486	70-130	S	%Rec	5	1/12/2022 5:03:43 PM	64950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.22	0.12		mg/Kg	5	1/12/2022 5:03:43 PM	64950
Toluene	1.1	0.23		mg/Kg	5	1/12/2022 5:03:43 PM	64950
Ethylbenzene	1.2	0.23		mg/Kg	5	1/12/2022 5:03:43 PM	64950
Xylenes, Total	15	0.46		mg/Kg	5	1/12/2022 5:03:43 PM	64950
Surr: 4-Bromofluorobenzene	133	70-130	S	%Rec	5	1/12/2022 5:03:43 PM	64950

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

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

Page 16 of 27

Analytical Report

Lab Order 2201360

Date Reported: 1/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: A2-20

Project: Jackson B 57

Collection Date: 1/6/2022 11:30:00 AM

Lab ID: 2201360-017

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	8500	600		mg/Kg	200	1/15/2022 12:45:57 AM	64993
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	1300	96		mg/Kg	10	1/13/2022 4:10:25 PM	64960
Motor Oil Range Organics (MRO)	640	480		mg/Kg	10	1/13/2022 4:10:25 PM	64960
Surr: DNOP	0	70-130	S	%Rec	10	1/13/2022 4:10:25 PM	64960
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	54	23		mg/Kg	5	1/12/2022 5:27:14 PM	64950
Surr: BFB	169	70-130	S	%Rec	5	1/12/2022 5:27:14 PM	64950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.12	0.11		mg/Kg	5	1/12/2022 5:27:14 PM	64950
Toluene	0.53	0.23		mg/Kg	5	1/12/2022 5:27:14 PM	64950
Ethylbenzene	0.24	0.23		mg/Kg	5	1/12/2022 5:27:14 PM	64950
Xylenes, Total	1.7	0.45		mg/Kg	5	1/12/2022 5:27:14 PM	64950
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	5	1/12/2022 5:27:14 PM	64950

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

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

Page 17 of 27

Analytical Report

Lab Order 2201360

Date Reported: 1/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: A2-25

Project: Jackson B 57

Collection Date: 1/6/2022 11:40:00 AM

Lab ID: 2201360-018

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	8900	300		mg/Kg	100	1/15/2022 12:58:18 AM	65009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	3000	180		mg/Kg	20	1/13/2022 1:31:24 PM	64960
Motor Oil Range Organics (MRO)	980	880		mg/Kg	20	1/13/2022 1:31:24 PM	64960
Surr: DNOP	0	70-130	S	%Rec	20	1/13/2022 1:31:24 PM	64960
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	1200	25		mg/Kg	5	1/12/2022 5:50:35 PM	64950
Surr: BFB	1030	70-130	S	%Rec	5	1/12/2022 5:50:35 PM	64950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	2.0	0.12		mg/Kg	5	1/12/2022 5:50:35 PM	64950
Toluene	70	2.5		mg/Kg	50	1/13/2022 5:31:58 PM	64950
Ethylbenzene	55	2.5		mg/Kg	50	1/13/2022 5:31:58 PM	64950
Xylenes, Total	66	0.49		mg/Kg	5	1/12/2022 5:50:35 PM	64950
Surr: 4-Bromofluorobenzene	282	70-130	S	%Rec	5	1/12/2022 5:50:35 PM	64950

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

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

Page 18 of 27

Analytical Report

Lab Order 2201360

Date Reported: 1/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: A2-30

Project: Jackson B 57

Collection Date: 1/6/2022 11:50:00 AM

Lab ID: 2201360-019

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	8500	300		mg/Kg	100	1/15/2022 1:10:38 AM	65009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	4100	180		mg/Kg	20	1/13/2022 1:43:39 PM	64960
Motor Oil Range Organics (MRO)	1400	900		mg/Kg	20	1/13/2022 1:43:39 PM	64960
Surr: DNOP	0	70-130	S	%Rec	20	1/13/2022 1:43:39 PM	64960
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	1200	24		mg/Kg	5	1/12/2022 6:13:54 PM	64950
Surr: BFB	1090	70-130	S	%Rec	5	1/12/2022 6:13:54 PM	64950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	2.2	0.12		mg/Kg	5	1/12/2022 6:13:54 PM	64950
Toluene	71	2.4		mg/Kg	50	1/13/2022 11:39:16 AM	64950
Ethylbenzene	62	2.4		mg/Kg	50	1/13/2022 11:39:16 AM	64950
Xylenes, Total	74	4.8		mg/Kg	50	1/13/2022 11:39:16 AM	64950
Surr: 4-Bromofluorobenzene	301	70-130	S	%Rec	5	1/12/2022 6:13:54 PM	64950

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

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

Analytical Report

Lab Order 2201360

Date Reported: 1/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: A2-35

Project: Jackson B 57

Collection Date: 1/6/2022 12:00:00 PM

Lab ID: 2201360-020

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	9500	600		mg/Kg	200	1/15/2022 1:22:59 AM	65009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	3400	200		mg/Kg	20	1/13/2022 1:56:01 PM	64960
Motor Oil Range Organics (MRO)	1200	980		mg/Kg	20	1/13/2022 1:56:01 PM	64960
Surr: DNOP	0	70-130	S	%Rec	20	1/13/2022 1:56:01 PM	64960
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	940	230		mg/Kg	50	1/12/2022 6:37:30 PM	64950
Surr: BFB	195	70-130	S	%Rec	50	1/12/2022 6:37:30 PM	64950
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	2.4	1.2		mg/Kg	50	1/12/2022 6:37:30 PM	64950
Toluene	39	2.3		mg/Kg	50	1/12/2022 6:37:30 PM	64950
Ethylbenzene	40	2.3		mg/Kg	50	1/12/2022 6:37:30 PM	64950
Xylenes, Total	43	4.6		mg/Kg	50	1/12/2022 6:37:30 PM	64950
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	50	1/12/2022 6:37:30 PM	64950

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

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

Analytical Report

Lab Order 2201360

Date Reported: 1/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: A2-40

Project: Jackson B 57

Collection Date: 1/6/2022 12:10:00 PM

Lab ID: 2201360-021

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	12000	600		mg/Kg	200	1/15/2022 1:35:21 AM	65009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	8600	200		mg/Kg	20	1/13/2022 5:45:34 PM	64980
Motor Oil Range Organics (MRO)	3100	1000		mg/Kg	20	1/13/2022 5:45:34 PM	64980
Surr: DNOP	0	70-130	S	%Rec	20	1/13/2022 5:45:34 PM	64980
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	2600	240		mg/Kg	50	1/13/2022 8:22:00 AM	64958
Surr: BFB	276	70-130	S	%Rec	50	1/13/2022 8:22:00 AM	64958
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	51	1.2		mg/Kg	50	1/13/2022 8:22:00 AM	64958
Toluene	190	2.4		mg/Kg	50	1/13/2022 8:22:00 AM	64958
Ethylbenzene	110	2.4		mg/Kg	50	1/13/2022 8:22:00 AM	64958
Xylenes, Total	110	4.8		mg/Kg	50	1/13/2022 8:22:00 AM	64958
Surr: 4-Bromofluorobenzene	147	70-130	S	%Rec	50	1/13/2022 8:22:00 AM	64958

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

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

Page 21 of 27

Analytical Report

Lab Order 2201360

Date Reported: 1/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: A2-45

Project: Jackson B 57

Collection Date: 1/6/2022 12:20:00 PM

Lab ID: 2201360-022

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	9600	300		mg/Kg	100	1/15/2022 2:12:24 AM	65009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	18000	490		mg/Kg	50	1/13/2022 5:56:08 PM	64980
Motor Oil Range Organics (MRO)	7300	2500		mg/Kg	50	1/13/2022 5:56:08 PM	64980
Surr: DNOP	0	70-130	S	%Rec	50	1/13/2022 5:56:08 PM	64980
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	6700	970		mg/Kg	200	1/13/2022 9:02:00 AM	64958
Surr: BFB	187	70-130	S	%Rec	200	1/13/2022 9:02:00 AM	64958
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	220	4.8		mg/Kg	200	1/13/2022 9:02:00 AM	64958
Toluene	590	9.7		mg/Kg	200	1/13/2022 9:02:00 AM	64958
Ethylbenzene	270	9.7		mg/Kg	200	1/13/2022 9:02:00 AM	64958
Xylenes, Total	290	19		mg/Kg	200	1/13/2022 9:02:00 AM	64958
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	200	1/13/2022 9:02:00 AM	64958

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

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

Page 22 of 27

Analytical Report

Lab Order 2201360

Date Reported: 1/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Midland

Client Sample ID: A2-50

Project: Jackson B 57

Collection Date: 1/6/2022 12:30:00 PM

Lab ID: 2201360-023

Matrix: SOIL

Received Date: 1/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	74	60		mg/Kg	20	1/13/2022 5:49:17 PM	65009
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	1100	99		mg/Kg	10	1/13/2022 6:06:42 PM	64980
Motor Oil Range Organics (MRO)	600	490		mg/Kg	10	1/13/2022 6:06:42 PM	64980
Surr: DNOP	0	70-130	S	%Rec	10	1/13/2022 6:06:42 PM	64980
EPA METHOD 8015D: GASOLINE RANGE							Analyst: mb
Gasoline Range Organics (GRO)	540	23		mg/Kg	5	1/13/2022 9:41:00 AM	64958
Surr: BFB	467	70-130	S	%Rec	5	1/13/2022 9:41:00 AM	64958
EPA METHOD 8021B: VOLATILES							Analyst: mb
Benzene	1.0	0.12		mg/Kg	5	1/13/2022 9:41:00 AM	64958
Toluene	20	0.23		mg/Kg	5	1/13/2022 9:41:00 AM	64958
Ethylbenzene	21	0.47		mg/Kg	10	1/13/2022 8:31:00 PM	64958
Xylenes, Total	25	0.47		mg/Kg	5	1/13/2022 9:41:00 AM	64958
Surr: 4-Bromofluorobenzene	266	70-130	S	%Rec	5	1/13/2022 9:41:00 AM	64958

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

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

Page 23 of 27

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

WO#: 2201360

21-Jan-22

Client: GHD Midland**Project:** Jackson B 57

Sample ID: MB-64966	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 64966	RunNo: 85087								
Prep Date: 1/11/2022	Analysis Date: 1/11/2022	SeqNo: 2993902	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64966	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 64966	RunNo: 85087								
Prep Date: 1/11/2022	Analysis Date: 1/11/2022	SeqNo: 2993903	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.8	90	110			

Sample ID: MB-64993	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 64993	RunNo: 85123								
Prep Date: 1/12/2022	Analysis Date: 1/12/2022	SeqNo: 2995031	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-64993	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 64993	RunNo: 85123								
Prep Date: 1/12/2022	Analysis Date: 1/12/2022	SeqNo: 2995032	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Sample ID: MB-65009	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 65009	RunNo: 85140								
Prep Date: 1/13/2022	Analysis Date: 1/13/2022	SeqNo: 2995864	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-65009	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 65009	RunNo: 85140								
Prep Date: 1/13/2022	Analysis Date: 1/13/2022	SeqNo: 2995865	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.3	90	110			

Qualifiers:

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

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

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

WO#: 2201360

21-Jan-22

Client: GHD Midland**Project:** Jackson B 57

Sample ID: MB-64960	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64960	RunNo: 85093								
Prep Date: 1/11/2022	Analysis Date: 1/12/2022	SeqNo: 2994121 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		101	70	130			

Sample ID: LCS-64960	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64960	RunNo: 85093								
Prep Date: 1/11/2022	Analysis Date: 1/12/2022	SeqNo: 2994126 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.3	68.9	135			
Surr: DNOP	4.8		5.000		96.3	70	130			

Sample ID: MB-64980	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 64980	RunNo: 85152								
Prep Date: 1/12/2022	Analysis Date: 1/13/2022	SeqNo: 2995661 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		89.2	70	130			

Sample ID: LCS-64980	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 64980	RunNo: 85152								
Prep Date: 1/12/2022	Analysis Date: 1/13/2022	SeqNo: 2995662 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.4	68.9	135			
Surr: DNOP	4.6		5.000		91.8	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		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2201360

21-Jan-22

Client: GHD Midland

Project: Jackson B 57

Sample ID: mb-64958	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 64958		RunNo: 85110							
Prep Date: 1/11/2022	Analysis Date: 1/12/2022		SeqNo: 2994495		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	890		1000		88.9	70	130			

Sample ID: lcs-64958	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 64958		RunNo: 85110							
Prep Date: 1/11/2022	Analysis Date: 1/12/2022		SeqNo: 2994497		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.4	78.6	131			
Surr: BFB	1000		1000		102	70	130			

Sample ID: mb-64950	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 64950		RunNo: 85111							
Prep Date: 1/11/2022	Analysis Date: 1/12/2022		SeqNo: 2994561		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.4	70	130			

Sample ID: lcs-64950	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 64950		RunNo: 85111							
Prep Date: 1/11/2022	Analysis Date: 1/12/2022		SeqNo: 2994562		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.4	78.6	131			
Surr: BFB	1100		1000		109	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix 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#: 2201360

21-Jan-22

Client: GHD Midland**Project:** Jackson B 57

Sample ID: mb-64958	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 64958	RunNo: 85110								
Prep Date: 1/11/2022	Analysis Date: 1/12/2022	SeqNo: 2994523	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		91.7	70	130			

Sample ID: lcs-64958	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 64958	RunNo: 85110								
Prep Date: 1/11/2022	Analysis Date: 1/12/2022	SeqNo: 2994524	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.4	80	120			
Toluene	0.95	0.050	1.000	0	94.7	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.9	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.4	70	130			

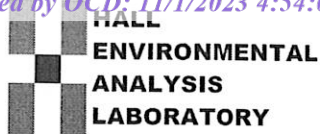
Sample ID: mb-64950	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 64950	RunNo: 85111								
Prep Date: 1/11/2022	Analysis Date: 1/12/2022	SeqNo: 2994609	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		105	70	130			

Sample ID: LCS-64950	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 64950	RunNo: 85111								
Prep Date: 1/11/2022	Analysis Date: 1/12/2022	SeqNo: 2994610	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.1	80	120			
Toluene	0.90	0.050	1.000	0	90.4	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.2	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.4	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	70	130			

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: GHD Midland

Work Order Number: 2201360

RcptNo: 1

Received By: Cheyenne Cason 1/11/2022 8:00:00 AM

Completed By: Sean Livingston 1/11/2022 8:23:41 AM

Reviewed By: KPA 1/11/22 9:45

Chad
Sean Livingston

Chain of Custody

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

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☐ No ☒ NA ☐
5. Sample(s) in proper container(s)? samples not frozen.
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: *Chad* 1/11/22

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-0.4	Good				

Chain-of-Custody Record

Client: GHD

Mailing Address:

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

Phone #: (505)377-4218

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

QA/QC Package:

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

Turn-Around Time:

☒ Standard ☐ Rush 5-day

Project Name:

Tschannen B # 57

Project #:

12566090

Project Manager:

Becky Haskell

Tom Larson

Sampler: Zach Comino

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): -0.8 to 0.4 = -0.4

Date Time Matrix Sample Name

08/22 0830

S

A1-10

A1-15

A1-20

A1-25

A1-30

A1-35

A1-40

A1-45

A1-50

A1-55

A1-60

A1-65

Container Type and #

Preservative Type

HEAL No. 2201360

BTEX / MTBE / TMBs (8021)

PFH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCBs

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Date: 08/22 0830

Relinquished by: Zach Comino

Relinquished by: Zach Comino

Relinquished by: Zach Comino

Relinquished by: Zach Comino

Relinquished by: Zach Comino

Relinquished by: Zach Comino

Relinquished by: Zach Comino

Relinquished by: Zach Comino

Relinquished by: Zach Comino

Relinquished by: Zach Comino

Relinquished by: Zach Comino

Relinquished by: Zach Comino

Relinquished by: Zach Comino

Relinquished by: Zach Comino

Relinquished by: Zach Comino

Relinquished by: Zach Comino

Received by: Via: Date Time

Received by: Via: Date Time

Received by: Via: Date Time

Received by: Via: Date Time

Received by: Via: Date Time

Received by: Via: Date Time

Received by: Via: Date Time

Received by: Via: Date Time

Received by: Via: Date Time

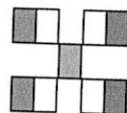
Remarks: Please email: Chase_Settle@eogresources.com; Tom.Larson@ghd.com; Zach.Comino@ghd.com

Matthew.Laughlin@ghd.com; Along with Becky Haskell

sample not from listed above.

on 11/1/22 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

Turn-Around Time:		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush <u>5-day</u>	
Project Name:		<u>Jackson B # 57</u>	
Project #:		<u>12566090</u>	
Project Manager:		Becky Haskell	
Tom Larson			
Sampler:		Zach Comino	
On Ice:		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
# of Coolers:		1	
Cooler Temp (including CF):		<u>-0.8+0.4 = -0.4</u>	
Container Type and #	Preservative Type	HEAL No.	
<u>Jar</u>		<u>013</u>	
		<u>014</u>	
		<u>015</u>	
		<u>016</u>	
		<u>017</u>	
		<u>018</u>	
		<u>019</u>	
		<u>020</u>	
		<u>021</u>	
		<u>022</u>	
		<u>023</u>	
Date	Time	Matrix	Sample Name
<u>01/01/22</u>	<u>1010</u>	<u>S</u>	<u>A1-70</u>
	<u>1030</u>		<u>A1-75</u>
	<u>1110</u>		<u>A2-10</u>
	<u>1120</u>		<u>A2-15</u>
	<u>1130</u>		<u>A2-20</u>
	<u>1140</u>		<u>A2-25</u>
	<u>1150</u>		<u>A2-30</u>
	<u>1200</u>		<u>A2-35</u>
	<u>1210</u>		<u>A2-40</u>
	<u>1220</u>		<u>A2-45</u>
<u>1/10/22</u>	<u>1230</u>	<u>+</u>	<u>A2-50</u>
Date:	Time:	Relinquished by:	
<u>01/01/22</u>	<u>0800</u>	<u>Zach Comino</u>	
Date:	Time:	Relinquished by:	
<u>1/10/22</u>	<u>1900</u>	<u>Zach Comino</u>	
Received by:		Via:	Date Time
<u>Becky Haskell</u>			<u>1/10/22 800</u>
Received by:		Via:	Date Time
<u>Chase Comino</u>			<u>1/10/22 0800</u>

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

Direct Bill to EOG Chase Settle

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



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

November 11, 2020

Chase Settle

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Jackson B 57

OrderNo.: 2011064

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 8 sample(s) on 11/3/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2011064

Date Reported: 11/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: 2C2-10'

Project: Jackson B 57

Collection Date: 10/26/2020 2:16:00 PM

Lab ID: 2011064-001

Matrix: SOIL

Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	350	59		mg/Kg	20	11/9/2020 3:51:25 PM	56309
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	5200	94		mg/Kg	10	11/5/2020 11:32:29 AM	56195
Motor Oil Range Organics (MRO)	2300	470		mg/Kg	10	11/5/2020 11:32:29 AM	56195
Surr: DNOP	0	30.4-154	S	%Rec	10	11/5/2020 11:32:29 AM	56195
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	600	250		mg/Kg	50	11/6/2020 11:47:46 AM	56185
Surr: BFB	152	75.3-105	S	%Rec	50	11/6/2020 11:47:46 AM	56185
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	1.1	0.99		mg/Kg	50	11/6/2020 11:47:46 AM	56185
Toluene	15	2.5		mg/Kg	50	11/6/2020 11:47:46 AM	56185
Ethylbenzene	8.2	2.5		mg/Kg	50	11/6/2020 11:47:46 AM	56185
Xylenes, Total	23	4.9		mg/Kg	50	11/6/2020 11:47:46 AM	56185
Surr: 4-Bromofluorobenzene	107	80-120		%Rec	50	11/6/2020 11:47:46 AM	56185

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

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

Analytical Report

Lab Order 2011064

Date Reported: 11/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: 2C2-15'

Project: Jackson B 57

Collection Date: 10/26/2020 2:32:00 PM

Lab ID: 2011064-002

Matrix: SOIL

Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	110	60		mg/Kg	20	11/9/2020 4:28:28 PM	56309
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	4900	97		mg/Kg	10	11/5/2020 11:56:14 AM	56195
Motor Oil Range Organics (MRO)	2300	490		mg/Kg	10	11/5/2020 11:56:14 AM	56195
Surr: DNOP	0	30.4-154	S	%Rec	10	11/5/2020 11:56:14 AM	56195
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	650	240		mg/Kg	50	11/6/2020 12:11:18 PM	56185
Surr: BFB	160	75.3-105	S	%Rec	50	11/6/2020 12:11:18 PM	56185
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	0.99	0.95		mg/Kg	50	11/6/2020 12:11:18 PM	56185
Toluene	22	2.4		mg/Kg	50	11/6/2020 12:11:18 PM	56185
Ethylbenzene	14	2.4		mg/Kg	50	11/6/2020 12:11:18 PM	56185
Xylenes, Total	27	4.8		mg/Kg	50	11/6/2020 12:11:18 PM	56185
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	50	11/6/2020 12:11:18 PM	56185

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

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

Analytical Report

Lab Order 2011064

Date Reported: 11/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: 2C2-20'

Project: Jackson B 57

Collection Date: 10/26/2020 2:38:00 PM

Lab ID: 2011064-003

Matrix: SOIL

Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1500	60		mg/Kg	20	11/9/2020 4:40:48 PM	56309
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	5100	98		mg/Kg	10	11/5/2020 12:19:58 PM	56195
Motor Oil Range Organics (MRO)	2700	490		mg/Kg	10	11/5/2020 12:19:58 PM	56195
Surr: DNOP	0	30.4-154	S	%Rec	10	11/5/2020 12:19:58 PM	56195
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	700	95		mg/Kg	20	11/7/2020 4:11:11 PM	56185
Surr: BFB	271	75.3-105	S	%Rec	20	11/7/2020 4:11:11 PM	56185
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.62	0.47		mg/Kg	20	11/7/2020 4:11:11 PM	56185
Toluene	12	0.95		mg/Kg	20	11/7/2020 4:11:11 PM	56185
Ethylbenzene	7.4	0.95		mg/Kg	20	11/7/2020 4:11:11 PM	56185
Xylenes, Total	24	1.9		mg/Kg	20	11/7/2020 4:11:11 PM	56185
Surr: 4-Bromofluorobenzene	115	80-120		%Rec	20	11/7/2020 4:11:11 PM	56185

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

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

Analytical Report

Lab Order 2011064

Date Reported: 11/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: 2C2-25'

Project: Jackson B 57

Collection Date: 10/26/2020 2:51:00 PM

Lab ID: 2011064-004

Matrix: SOIL

Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	4400	150		mg/Kg	50	11/10/2020 8:31:50 AM	56309
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	2600	99		mg/Kg	10	11/5/2020 12:43:43 PM	56195
Motor Oil Range Organics (MRO)	1600	490		mg/Kg	10	11/5/2020 12:43:43 PM	56195
Surr: DNOP	0	30.4-154	S	%Rec	10	11/5/2020 12:43:43 PM	56195
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	350	100		mg/Kg	20	11/7/2020 4:34:37 PM	56185
Surr: BFB	178	75.3-105	S	%Rec	20	11/7/2020 4:34:37 PM	56185
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.53	0.50		mg/Kg	20	11/7/2020 4:34:37 PM	56185
Toluene	7.7	1.0		mg/Kg	20	11/7/2020 4:34:37 PM	56185
Ethylbenzene	8.8	1.0		mg/Kg	20	11/7/2020 4:34:37 PM	56185
Xylenes, Total	13	2.0		mg/Kg	20	11/7/2020 4:34:37 PM	56185
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	20	11/7/2020 4:34:37 PM	56185

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

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

Analytical Report

Lab Order 2011064

Date Reported: 11/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: 2C2-30'

Project: Jackson B 57

Collection Date: 10/26/2020 3:06:00 PM

Lab ID: 2011064-005

Matrix: SOIL

Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	6400	300		mg/Kg	100	11/10/2020 8:44:14 AM	56309
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	5500	100		mg/Kg	10	11/5/2020 1:07:29 PM	56195
Motor Oil Range Organics (MRO)	2700	500		mg/Kg	10	11/5/2020 1:07:29 PM	56195
Surr: DNOP	0	30.4-154	S	%Rec	10	11/5/2020 1:07:29 PM	56195
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	2300	480		mg/Kg	100	11/6/2020 1:21:38 PM	56185
Surr: BFB	163	75.3-105	S	%Rec	100	11/6/2020 1:21:38 PM	56185
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	18	2.4		mg/Kg	100	11/6/2020 1:21:38 PM	56185
Toluene	140	4.8		mg/Kg	100	11/6/2020 1:21:38 PM	56185
Ethylbenzene	92	4.8		mg/Kg	100	11/6/2020 1:21:38 PM	56185
Xylenes, Total	94	9.7		mg/Kg	100	11/6/2020 1:21:38 PM	56185
Surr: 4-Bromofluorobenzene	113	80-120		%Rec	100	11/6/2020 1:21:38 PM	56185

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

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

Analytical Report

Lab Order 2011064

Date Reported: 11/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: 2C2-35'

Project: Jackson B 57

Collection Date: 10/26/2020 3:21:00 PM

Lab ID: 2011064-006

Matrix: SOIL

Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	13000	590		mg/Kg	200	11/10/2020 8:56:38 AM	56309
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	960	97		mg/Kg	10	11/5/2020 1:31:18 PM	56195
Motor Oil Range Organics (MRO)	720	480		mg/Kg	10	11/5/2020 1:31:18 PM	56195
Surr: DNOP	0	30.4-154	S	%Rec	10	11/5/2020 1:31:18 PM	56195
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	310	50		mg/Kg	10	11/6/2020 4:29:34 PM	56185
Surr: BFB	232	75.3-105	S	%Rec	10	11/6/2020 4:29:34 PM	56185
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	0.74	0.25		mg/Kg	10	11/6/2020 4:29:34 PM	56185
Toluene	13	0.50		mg/Kg	10	11/6/2020 4:29:34 PM	56185
Ethylbenzene	13	0.50		mg/Kg	10	11/6/2020 4:29:34 PM	56185
Xylenes, Total	14	0.99		mg/Kg	10	11/6/2020 4:29:34 PM	56185
Surr: 4-Bromofluorobenzene	121	80-120	S	%Rec	10	11/6/2020 4:29:34 PM	56185

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

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

Analytical Report

Lab Order 2011064

Date Reported: 11/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: 2C2-40'

Project: Jackson B 57

Collection Date: 10/26/2020 3:34:00 PM

Lab ID: 2011064-007

Matrix: SOIL

Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	15000	600		mg/Kg	200	11/10/2020 9:09:03 AM	56309
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	2100	99		mg/Kg	10	11/5/2020 1:55:07 PM	56195
Motor Oil Range Organics (MRO)	1100	500		mg/Kg	10	11/5/2020 1:55:07 PM	56195
Surr: DNOP	0	30.4-154	S	%Rec	10	11/5/2020 1:55:07 PM	56195
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	820	97		mg/Kg	20	11/6/2020 4:53:12 PM	56185
Surr: BFB	233	75.3-105	S	%Rec	20	11/6/2020 4:53:12 PM	56185
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	7.8	0.48		mg/Kg	20	11/6/2020 4:53:12 PM	56185
Toluene	47	0.97		mg/Kg	20	11/6/2020 4:53:12 PM	56185
Ethylbenzene	35	0.97		mg/Kg	20	11/6/2020 4:53:12 PM	56185
Xylenes, Total	35	1.9		mg/Kg	20	11/6/2020 4:53:12 PM	56185
Surr: 4-Bromofluorobenzene	124	80-120	S	%Rec	20	11/6/2020 4:53:12 PM	56185

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

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

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**Lab Order **2011064**Date Reported: **11/11/2020****CLIENT:** EOG**Client Sample ID:** 2C2-50'**Project:** Jackson B 57**Collection Date:** 10/26/2020 4:10:00 PM**Lab ID:** 2011064-008**Matrix:** SOIL**Received Date:** 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	ND	60		mg/Kg	20	11/9/2020 6:07:15 PM	56309
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	11/5/2020 2:18:55 PM	56195
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/5/2020 2:18:55 PM	56195
Surr: DNOP	96.8	30.4-154		%Rec	1	11/5/2020 2:18:55 PM	56195
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/6/2020 5:16:48 PM	56185
Surr: BFB	92.6	75.3-105		%Rec	1	11/6/2020 5:16:48 PM	56185
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	11/6/2020 5:16:48 PM	56185
Toluene	ND	0.050		mg/Kg	1	11/6/2020 5:16:48 PM	56185
Ethylbenzene	ND	0.050		mg/Kg	1	11/6/2020 5:16:48 PM	56185
Xylenes, Total	ND	0.10		mg/Kg	1	11/6/2020 5:16:48 PM	56185
Surr: 4-Bromofluorobenzene	98.6	80-120		%Rec	1	11/6/2020 5:16:48 PM	56185

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2011064
11-Nov-20

Client: EOG
Project: Jackson B 57

Sample ID: MB-56309		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 56309		RunNo: 73227						
Prep Date: 11/9/2020		Analysis Date: 11/9/2020		SeqNo: 2576709		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-56309		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 56309		RunNo: 73227						
Prep Date: 11/9/2020		Analysis Date: 11/9/2020		SeqNo: 2576718		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.1	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 9 of 13

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2011064

11-Nov-20

Client: EOG
Project: Jackson B 57

Sample ID: MB-56195	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 56195	RunNo: 73122								
Prep Date: 11/4/2020	Analysis Date: 11/5/2020	SeqNo: 2573228	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		95.4	30.4	154			

Sample ID: LCS-56195	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 56195	RunNo: 73122								
Prep Date: 11/4/2020	Analysis Date: 11/5/2020	SeqNo: 2573229	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.4	70	130			
Surr: DNOP	4.4		5.000		87.7	30.4	154			

Qualifiers:

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

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

WO#: 2011064

11-Nov-20

Client: EOG
Project: Jackson B 57

Sample ID: lcs-56185	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 56185				RunNo: 73179					
Prep Date: 11/3/2020	Analysis Date: 11/6/2020				SeqNo: 2574317	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.6	72.5	106			
Surr: BFB	1100		1000		108	75.3	105			S

Sample ID: mb-56185	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 56185				RunNo: 73179					
Prep Date: 11/3/2020	Analysis Date: 11/6/2020				SeqNo: 2574320	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.5	75.3	105			

Sample ID: mb-56250	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 56250				RunNo: 73203					
Prep Date: 11/6/2020	Analysis Date: 11/7/2020				SeqNo: 2574783	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	950		1000		94.6	75.3	105			

Sample ID: lcs-56250	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 56250				RunNo: 73203					
Prep Date: 11/6/2020	Analysis Date: 11/7/2020				SeqNo: 2574784	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		103	75.3	105			

Sample ID: mb-56254	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 56254				RunNo: 73203					
Prep Date: 11/6/2020	Analysis Date: 11/8/2020				SeqNo: 2574807	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		94.1	75.3	105			

Sample ID: lcs-56254	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 56254				RunNo: 73203					
Prep Date: 11/6/2020	Analysis Date: 11/8/2020				SeqNo: 2574808	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		102	75.3	105			

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#: 2011064

11-Nov-20

Client: EOG
Project: Jackson B 57

Sample ID: LCS-56185	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 56185			RunNo: 73179						
Prep Date: 11/3/2020	Analysis Date: 11/6/2020			SeqNo: 2574369	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.2	80	120			
Toluene	0.98	0.050	1.000	0	98.3	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	98.1	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID: mb-56185	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 56185			RunNo: 73179						
Prep Date: 11/3/2020	Analysis Date: 11/6/2020			SeqNo: 2574372	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID: mb-56250	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 56250			RunNo: 73203						
Prep Date: 11/6/2020	Analysis Date: 11/7/2020			SeqNo: 2574958	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID: LCS-56250	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 56250			RunNo: 73203						
Prep Date: 11/6/2020	Analysis Date: 11/7/2020			SeqNo: 2574959	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID: mb-56254	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 56254			RunNo: 73203						
Prep Date: 11/6/2020	Analysis Date: 11/8/2020			SeqNo: 2574982	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	80	120			

Qualifiers:

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

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#: 2011064

11-Nov-20

Client: EOG

Project: Jackson B 57

Sample ID: LCS-56254		SampType: LCS		TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS		Batch ID: 56254		RunNo: 73203						
Prep Date: 11/6/2020		Analysis Date: 11/8/2020		SeqNo: 2574983		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		99.0	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

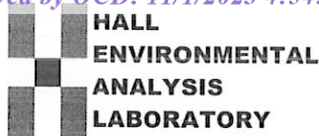
B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit



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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2011064

RcptNo: 1

Received By: Emily Mocho

11/3/2020 8:00:00 AM

Completed By: Emily Mocho

11/3/2020 9:17:01 AM

Reviewed By: DAD 11/3/20

Chain of Custody

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

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°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: ENM 11/3/20

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes			
2	3.9	Good	Yes			

Chain-of-Custody Record

Client: EOG Resources, Inc.Mailing Address: On File

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type) _____Turn-Around Time: 5 day rush☒ Standard ☐ Rush

Project Name:

Project #: Jackson B #57

Project Manager:

Sampler: Chase SuttleOn Ice: ☒ Yes ☐ No# of Coolers: 2Cooler Temp (including CF): 2.4 ± 0.2 = 2.4 (°C)

Container Type and #

Preservative Type

HEAL No.

Date

Time

Sample Name

Matrix

Time

Date

Time

Sample Name

Matrix

Time

Date

Time

Sample Name

Matrix

Time

Date

Time

Sample Name

Matrix

Time

Date

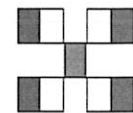
Time

Sample Name

Matrix

Time

Date

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTEX / MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl₂, F, Br, NO₃, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

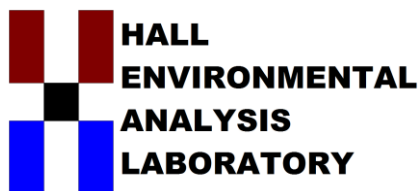
Total Coliform (Present/Absent)

Remarks:

Seal intact 8m11/3/20

Pg 1/1

Received by: [Signature] Date: 11/2/20 Time: 12:05Via: EM courierReceived by: [Signature] Date: 11/3/20 Time: 8:00Via: EM courierReceived by: [Signature] Date: 11/2/20 Time: 19:00Via: EM courierReceived by: [Signature] Date: 11/2/20 Time: 19:00Via: EM courier



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

November 11, 2020

Chase Settle

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Jackson B 57

OrderNo.: 2011061

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 14 sample(s) on 11/3/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2011061

Date Reported: 11/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: 1C2-10'

Project: Jackson B 57

Collection Date: 10/26/2020 9:07:00 AM

Lab ID: 2011061-001

Matrix: SOIL

Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2800	150		mg/Kg	50	11/10/2020 9:21:27 AM	56258
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	3800	96		mg/Kg	10	11/4/2020 10:00:07 PM	56183
Motor Oil Range Organics (MRO)	1800	480		mg/Kg	10	11/4/2020 10:00:07 PM	56183
Surr: DNOP	0	30.4-154	S	%Rec	10	11/4/2020 10:00:07 PM	56183
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	1800	97		mg/Kg	20	11/6/2020 12:04:53 AM	56177
Surr: BFB	343	75.3-105	S	%Rec	20	11/6/2020 12:04:53 AM	56177
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	20	0.48		mg/Kg	20	11/6/2020 12:04:53 AM	56177
Toluene	110	4.8		mg/Kg	100	11/6/2020 9:27:29 AM	56177
Ethylbenzene	74	0.97		mg/Kg	20	11/6/2020 12:04:53 AM	56177
Xylenes, Total	72	1.9		mg/Kg	20	11/6/2020 12:04:53 AM	56177
Surr: 4-Bromofluorobenzene	143	80-120	S	%Rec	20	11/6/2020 12:04:53 AM	56177

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

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

Analytical Report

Lab Order 2011061

Date Reported: 11/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: 1C2-15'

Project: Jackson B 57

Collection Date: 10/26/2020 9:16:00 AM

Lab ID: 2011061-002

Matrix: SOIL

Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2300	60		mg/Kg	20	11/6/2020 4:05:35 PM	56258
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	7000	96		mg/Kg	10	11/4/2020 10:23:55 PM	56183
Motor Oil Range Organics (MRO)	3300	480		mg/Kg	10	11/4/2020 10:23:55 PM	56183
Surr: DNOP	0	30.4-154	S	%Rec	10	11/4/2020 10:23:55 PM	56183
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	2800	240		mg/Kg	50	11/6/2020 12:28:23 AM	56177
Surr: BFB	252	75.3-105	S	%Rec	50	11/6/2020 12:28:23 AM	56177
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	30	1.2		mg/Kg	50	11/6/2020 12:28:23 AM	56177
Toluene	210	2.4		mg/Kg	50	11/6/2020 12:28:23 AM	56177
Ethylbenzene	150	2.4		mg/Kg	50	11/6/2020 12:28:23 AM	56177
Xylenes, Total	140	4.9		mg/Kg	50	11/6/2020 12:28:23 AM	56177
Surr: 4-Bromofluorobenzene	133	80-120	S	%Rec	50	11/6/2020 12:28:23 AM	56177

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

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

Analytical Report

Lab Order 2011061

Date Reported: 11/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: 1C2-20'

Project: Jackson B 57

Collection Date: 10/26/2020 9:29:00 AM

Lab ID: 2011061-003

Matrix: SOIL

Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	840	60		mg/Kg	20	11/6/2020 4:18:00 PM	56258
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	6500	960		mg/Kg	100	11/4/2020 10:47:38 PM	56183
Motor Oil Range Organics (MRO)	5900	4800		mg/Kg	100	11/4/2020 10:47:38 PM	56183
Surr: DNOP	0	30.4-154	S	%Rec	100	11/4/2020 10:47:38 PM	56183
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	2200	250		mg/Kg	50	11/6/2020 12:51:44 AM	56177
Surr: BFB	239	75.3-105	S	%Rec	50	11/6/2020 12:51:44 AM	56177
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	9.0	1.2		mg/Kg	50	11/6/2020 12:51:44 AM	56177
Toluene	89	2.5		mg/Kg	50	11/6/2020 12:51:44 AM	56177
Ethylbenzene	63	2.5		mg/Kg	50	11/6/2020 12:51:44 AM	56177
Xylenes, Total	100	5.0		mg/Kg	50	11/6/2020 12:51:44 AM	56177
Surr: 4-Bromofluorobenzene	119	80-120		%Rec	50	11/6/2020 12:51:44 AM	56177

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

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

Analytical Report

Lab Order 2011061

Date Reported: 11/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: 1C2-25'

Project: Jackson B 57

Collection Date: 10/26/2020 9:48:00 AM

Lab ID: 2011061-004

Matrix: SOIL

Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	3200	150		mg/Kg	50	11/10/2020 9:33:52 AM	56258
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	8100	490		mg/Kg	50	11/5/2020 4:09:24 PM	56183
Motor Oil Range Organics (MRO)	4300	2400		mg/Kg	50	11/5/2020 4:09:24 PM	56183
Surr: DNOP	0	30.4-154	S	%Rec	50	11/5/2020 4:09:24 PM	56183
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	1100	240		mg/Kg	50	11/6/2020 1:15:09 AM	56177
Surr: BFB	175	75.3-105	S	%Rec	50	11/6/2020 1:15:09 AM	56177
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	4.4	1.2		mg/Kg	50	11/6/2020 1:15:09 AM	56177
Toluene	45	2.4		mg/Kg	50	11/6/2020 1:15:09 AM	56177
Ethylbenzene	39	2.4		mg/Kg	50	11/6/2020 1:15:09 AM	56177
Xylenes, Total	55	4.9		mg/Kg	50	11/6/2020 1:15:09 AM	56177
Surr: 4-Bromofluorobenzene	110	80-120		%Rec	50	11/6/2020 1:15:09 AM	56177

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

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

Page 4 of 22

Analytical Report

Lab Order 2011061

Date Reported: 11/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: 1C2-30'

Project: Jackson B 57

Collection Date: 10/26/2020 10:01:00 AM

Lab ID: 2011061-005

Matrix: SOIL

Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	2300	150		mg/Kg	50	11/10/2020 9:46:16 AM	56258
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	7600	95		mg/Kg	10	11/4/2020 11:35:05 PM	56183
Motor Oil Range Organics (MRO)	3500	480		mg/Kg	10	11/4/2020 11:35:05 PM	56183
Surr: DNOP	0	30.4-154	S	%Rec	10	11/4/2020 11:35:05 PM	56183
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	3900	240		mg/Kg	50	11/6/2020 1:38:30 AM	56177
Surr: BFB	272	75.3-105	S	%Rec	50	11/6/2020 1:38:30 AM	56177
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	95	1.2		mg/Kg	50	11/6/2020 1:38:30 AM	56177
Toluene	310	9.8		mg/Kg	200	11/6/2020 9:50:46 AM	56177
Ethylbenzene	160	2.4		mg/Kg	50	11/6/2020 1:38:30 AM	56177
Xylenes, Total	160	4.9		mg/Kg	50	11/6/2020 1:38:30 AM	56177
Surr: 4-Bromofluorobenzene	135	80-120	S	%Rec	50	11/6/2020 1:38:30 AM	56177

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

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

Analytical Report

Lab Order 2011061

Date Reported: 11/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: 1C2-35'

Project: Jackson B 57

Collection Date: 10/26/2020 10:10:00 AM

Lab ID: 2011061-006

Matrix: SOIL

Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	3100	150		mg/Kg	50	11/10/2020 9:58:41 AM	56258
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	11000	970		mg/Kg	100	11/4/2020 11:58:44 PM	56183
Motor Oil Range Organics (MRO)	8000	4900		mg/Kg	100	11/4/2020 11:58:44 PM	56183
Surr: DNOP	0	30.4-154	S	%Rec	100	11/4/2020 11:58:44 PM	56183
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	5100	240		mg/Kg	50	11/6/2020 2:01:58 AM	56177
Surr: BFB	325	75.3-105	S	%Rec	50	11/6/2020 2:01:58 AM	56177
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	130	1.2		mg/Kg	50	11/6/2020 2:01:58 AM	56177
Toluene	450	9.6		mg/Kg	200	11/6/2020 10:14:15 AM	56177
Ethylbenzene	230	2.4		mg/Kg	50	11/6/2020 2:01:58 AM	56177
Xylenes, Total	210	4.8		mg/Kg	50	11/6/2020 2:01:58 AM	56177
Surr: 4-Bromofluorobenzene	148	80-120	S	%Rec	50	11/6/2020 2:01:58 AM	56177

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

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

Analytical Report

Lab Order 2011061

Date Reported: 11/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: 1C2-40'

Project: Jackson B 57

Collection Date: 10/26/2020 10:32:00 AM

Lab ID: 2011061-007

Matrix: SOIL

Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: VP
Chloride	1500	60		mg/Kg	20	11/6/2020 5:07:38 PM	56258
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	8000	910		mg/Kg	100	11/5/2020 12:22:27 AM	56183
Motor Oil Range Organics (MRO)	4700	4600		mg/Kg	100	11/5/2020 12:22:27 AM	56183
Surr: DNOP	0	30.4-154	S	%Rec	100	11/5/2020 12:22:27 AM	56183
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	3800	250		mg/Kg	50	11/6/2020 2:25:19 AM	56177
Surr: BFB	296	75.3-105	S	%Rec	50	11/6/2020 2:25:19 AM	56177
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	64	1.2		mg/Kg	50	11/6/2020 2:25:19 AM	56177
Toluene	260	9.8		mg/Kg	200	11/6/2020 10:37:37 AM	56177
Ethylbenzene	160	2.5		mg/Kg	50	11/6/2020 2:25:19 AM	56177
Xylenes, Total	160	4.9		mg/Kg	50	11/6/2020 2:25:19 AM	56177
Surr: 4-Bromofluorobenzene	137	80-120	S	%Rec	50	11/6/2020 2:25:19 AM	56177

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

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

Analytical Report

Lab Order 2011061

Date Reported: 11/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: 1C2-45'

Project: Jackson B 57

Collection Date: 10/26/2020 10:54:00 AM

Lab ID: 2011061-008

Matrix: SOIL

Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/9/2020 11:07:39 AM	56296
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	1300	91		mg/Kg	10	11/5/2020 12:46:06 AM	56183
Motor Oil Range Organics (MRO)	650	460		mg/Kg	10	11/5/2020 12:46:06 AM	56183
Surr: DNOP	0	30.4-154	S	%Rec	10	11/5/2020 12:46:06 AM	56183
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	790	48		mg/Kg	10	11/6/2020 2:48:44 AM	56177
Surr: BFB	359	75.3-105	S	%Rec	10	11/6/2020 2:48:44 AM	56177
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	8.0	0.24		mg/Kg	10	11/6/2020 2:48:44 AM	56177
Toluene	48	0.48		mg/Kg	10	11/6/2020 2:48:44 AM	56177
Ethylbenzene	36	0.48		mg/Kg	10	11/6/2020 2:48:44 AM	56177
Xylenes, Total	36	0.96		mg/Kg	10	11/6/2020 2:48:44 AM	56177
Surr: 4-Bromofluorobenzene	143	80-120	S	%Rec	10	11/6/2020 2:48:44 AM	56177

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

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

Analytical Report

Lab Order 2011061

Date Reported: 11/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: 1C2-50'

Project: Jackson B 57

Collection Date: 10/26/2020 11:15:00 AM

Lab ID: 2011061-009

Matrix: SOIL

Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/9/2020 11:20:03 AM	56296
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	1100	50		mg/Kg	10	11/5/2020 10:19:54 PM	56182
Surr: BFB	106	70-130		%Rec	10	11/5/2020 10:19:54 PM	56182
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	1600	95		mg/Kg	10	11/5/2020 1:56:53 AM	56188
Motor Oil Range Organics (MRO)	680	470		mg/Kg	10	11/5/2020 1:56:53 AM	56188
Surr: DNOP	0	30.4-154	S	%Rec	10	11/5/2020 1:56:53 AM	56188
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	7.8	0.25		mg/Kg	10	11/5/2020 10:19:54 PM	56182
Toluene	52	5.0		mg/Kg	100	11/6/2020 1:55:34 PM	56182
Ethylbenzene	33	0.50		mg/Kg	10	11/5/2020 10:19:54 PM	56182
Xylenes, Total	40	0.99		mg/Kg	10	11/5/2020 10:19:54 PM	56182
Surr: 1,2-Dichloroethane-d4	88.6	70-130		%Rec	10	11/5/2020 10:19:54 PM	56182
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	10	11/5/2020 10:19:54 PM	56182
Surr: Dibromofluoromethane	91.6	70-130		%Rec	10	11/5/2020 10:19:54 PM	56182
Surr: Toluene-d8	96.0	70-130		%Rec	10	11/5/2020 10:19:54 PM	56182

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

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

Page 9 of 22

Analytical Report

Lab Order 2011061

Date Reported: 11/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: 1C2-55'

Project: Jackson B 57

Collection Date: 10/26/2020 11:35:00 AM

Lab ID: 2011061-010

Matrix: SOIL

Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/9/2020 11:32:27 AM	56296
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	1800	95		mg/Kg	20	11/5/2020 10:47:10 PM	56182
Surr: BFB	93.5	70-130		%Rec	20	11/5/2020 10:47:10 PM	56182
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	3000	97		mg/Kg	10	11/5/2020 2:20:27 AM	56188
Motor Oil Range Organics (MRO)	1400	490		mg/Kg	10	11/5/2020 2:20:27 AM	56188
Surr: DNOP	0	30.4-154	S	%Rec	10	11/5/2020 2:20:27 AM	56188
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	16	0.47		mg/Kg	20	11/5/2020 10:47:10 PM	56182
Toluene	80	0.95		mg/Kg	20	11/5/2020 10:47:10 PM	56182
Ethylbenzene	54	0.95		mg/Kg	20	11/5/2020 10:47:10 PM	56182
Xylenes, Total	58	1.9		mg/Kg	20	11/5/2020 10:47:10 PM	56182
Surr: 1,2-Dichloroethane-d4	90.1	70-130		%Rec	20	11/5/2020 10:47:10 PM	56182
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	20	11/5/2020 10:47:10 PM	56182
Surr: Dibromofluoromethane	90.0	70-130		%Rec	20	11/5/2020 10:47:10 PM	56182
Surr: Toluene-d8	96.2	70-130		%Rec	20	11/5/2020 10:47:10 PM	56182

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

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

Page 10 of 22

Analytical Report

Lab Order 2011061

Date Reported: 11/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: 1C2-60'

Project: Jackson B 57

Collection Date: 10/26/2020 11:53:00 AM

Lab ID: 2011061-011

Matrix: SOIL

Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	61	60		mg/Kg	20	11/9/2020 11:44:50 AM	56296
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	2100	100		mg/Kg	20	11/5/2020 11:14:24 PM	56182
Surr: BFB	95.2	70-130		%Rec	20	11/5/2020 11:14:24 PM	56182
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	2600	97		mg/Kg	10	11/5/2020 2:44:02 AM	56188
Motor Oil Range Organics (MRO)	1300	480		mg/Kg	10	11/5/2020 2:44:02 AM	56188
Surr: DNOP	0	30.4-154	S	%Rec	10	11/5/2020 2:44:02 AM	56188
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	13	0.50		mg/Kg	20	11/5/2020 11:14:24 PM	56182
Toluene	79	1.0		mg/Kg	20	11/5/2020 11:14:24 PM	56182
Ethylbenzene	56	1.0		mg/Kg	20	11/5/2020 11:14:24 PM	56182
Xylenes, Total	59	2.0		mg/Kg	20	11/5/2020 11:14:24 PM	56182
Surr: 1,2-Dichloroethane-d4	87.4	70-130		%Rec	20	11/5/2020 11:14:24 PM	56182
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	20	11/5/2020 11:14:24 PM	56182
Surr: Dibromofluoromethane	91.7	70-130		%Rec	20	11/5/2020 11:14:24 PM	56182
Surr: Toluene-d8	98.1	70-130		%Rec	20	11/5/2020 11:14:24 PM	56182

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical 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 11 of 22

Analytical Report

Lab Order 2011061

Date Reported: 11/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: 1C2-65'

Project: Jackson B 57

Collection Date: 10/26/2020 12:26:00 PM

Lab ID: 2011061-012

Matrix: SOIL

Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/9/2020 12:34:29 PM	56296
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/5/2020 11:41:39 PM	56182
Surr: BFB	101	70-130		%Rec	1	11/5/2020 11:41:39 PM	56182
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/5/2020 3:07:34 AM	56188
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/5/2020 3:07:34 AM	56188
Surr: DNOP	98.6	30.4-154		%Rec	1	11/5/2020 3:07:34 AM	56188
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.025		mg/Kg	1	11/5/2020 11:41:39 PM	56182
Toluene	ND	0.050		mg/Kg	1	11/5/2020 11:41:39 PM	56182
Ethylbenzene	ND	0.050		mg/Kg	1	11/5/2020 11:41:39 PM	56182
Xylenes, Total	ND	0.10		mg/Kg	1	11/5/2020 11:41:39 PM	56182
Surr: 1,2-Dichloroethane-d4	95.0	70-130		%Rec	1	11/5/2020 11:41:39 PM	56182
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	11/5/2020 11:41:39 PM	56182
Surr: Dibromofluoromethane	97.0	70-130		%Rec	1	11/5/2020 11:41:39 PM	56182
Surr: Toluene-d8	96.8	70-130		%Rec	1	11/5/2020 11:41:39 PM	56182

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

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

Page 12 of 22

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**Lab Order **2011061**Date Reported: **11/11/2020****CLIENT:** EOG**Client Sample ID:** 1C2-70'**Project:** Jackson B 57**Collection Date:** 10/26/2020 1:25:00 PM**Lab ID:** 2011061-013**Matrix:** SOIL**Received Date:** 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/9/2020 12:46:53 PM	56296
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/6/2020 12:08:46 AM	56182
Surr: BFB	101	70-130		%Rec	1	11/6/2020 12:08:46 AM	56182
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/5/2020 3:54:45 AM	56188
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/5/2020 3:54:45 AM	56188
Surr: DNOP	100	30.4-154		%Rec	1	11/5/2020 3:54:45 AM	56188
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.023		mg/Kg	1	11/6/2020 12:08:46 AM	56182
Toluene	ND	0.047		mg/Kg	1	11/6/2020 12:08:46 AM	56182
Ethylbenzene	ND	0.047		mg/Kg	1	11/6/2020 12:08:46 AM	56182
Xylenes, Total	ND	0.094		mg/Kg	1	11/6/2020 12:08:46 AM	56182
Surr: 1,2-Dichloroethane-d4	93.3	70-130		%Rec	1	11/6/2020 12:08:46 AM	56182
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	11/6/2020 12:08:46 AM	56182
Surr: Dibromofluoromethane	96.8	70-130		%Rec	1	11/6/2020 12:08:46 AM	56182
Surr: Toluene-d8	95.9	70-130		%Rec	1	11/6/2020 12:08:46 AM	56182

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical 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 13 of 22

Analytical Report

Lab Order 2011061

Date Reported: 11/11/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: 1C2-75'

Project: Jackson B 57

Collection Date: 10/26/2020 1:48:00 PM

Lab ID: 2011061-014

Matrix: SOIL

Received Date: 11/3/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	11/9/2020 12:59:18 PM	56296
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: DJF
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/6/2020 12:36:03 AM	56182
Surr: BFB	102	70-130		%Rec	1	11/6/2020 12:36:03 AM	56182
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	11/5/2020 4:18:11 AM	56188
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	11/5/2020 4:18:11 AM	56188
Surr: DNOP	98.7	30.4-154		%Rec	1	11/5/2020 4:18:11 AM	56188
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: DJF
Benzene	ND	0.024		mg/Kg	1	11/6/2020 12:36:03 AM	56182
Toluene	ND	0.048		mg/Kg	1	11/6/2020 12:36:03 AM	56182
Ethylbenzene	ND	0.048		mg/Kg	1	11/6/2020 12:36:03 AM	56182
Xylenes, Total	ND	0.096		mg/Kg	1	11/6/2020 12:36:03 AM	56182
Surr: 1,2-Dichloroethane-d4	99.9	70-130		%Rec	1	11/6/2020 12:36:03 AM	56182
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	11/6/2020 12:36:03 AM	56182
Surr: Dibromofluoromethane	101	70-130		%Rec	1	11/6/2020 12:36:03 AM	56182
Surr: Toluene-d8	94.4	70-130		%Rec	1	11/6/2020 12:36:03 AM	56182

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

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

Page 14 of 22

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

WO#: 2011061

11-Nov-20

Client: EOG
Project: Jackson B 57

Sample ID: MB-56258	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 56258	RunNo: 73173								
Prep Date: 11/6/2020	Analysis Date: 11/6/2020	SeqNo: 2575833	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-56258	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 56258	RunNo: 73173								
Prep Date: 11/6/2020	Analysis Date: 11/6/2020	SeqNo: 2575835	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.5	90	110			

Sample ID: MB-56296	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 56296	RunNo: 73210								
Prep Date: 11/9/2020	Analysis Date: 11/9/2020	SeqNo: 2576392	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-56296	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 56296	RunNo: 73210								
Prep Date: 11/9/2020	Analysis Date: 11/9/2020	SeqNo: 2576393	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.9	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

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#: 2011061

11-Nov-20

Client: EOG
Project: Jackson B 57

Sample ID: MB-56183	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 56183	RunNo: 73122								
Prep Date: 11/3/2020	Analysis Date: 11/4/2020	SeqNo: 2571825	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		115	30.4	154			

Sample ID: LCS-56183	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 56183	RunNo: 73122								
Prep Date: 11/3/2020	Analysis Date: 11/4/2020	SeqNo: 2571826	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.7	70	130			
Surr: DNOP	5.1		5.000		101	30.4	154			

Sample ID: MB-56188	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 56188	RunNo: 73122								
Prep Date: 11/3/2020	Analysis Date: 11/5/2020	SeqNo: 2571859	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		119	30.4	154			

Sample ID: LCS-56188	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 56188	RunNo: 73122								
Prep Date: 11/3/2020	Analysis Date: 11/5/2020	SeqNo: 2571860	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	105	70	130			
Surr: DNOP	5.6		5.000		112	30.4	154			

Sample ID: LCS-56211	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 56211	RunNo: 73123								
Prep Date: 11/4/2020	Analysis Date: 11/6/2020	SeqNo: 2573679	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.6		5.000		72.9	30.4	154			

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#: 2011061

11-Nov-20

Client: EOG
Project: Jackson B 57

Sample ID: MB-56211	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 56211		RunNo: 73123							
Prep Date: 11/4/2020	Analysis Date: 11/6/2020		SeqNo: 2573681		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.7		10.00		86.6	30.4	154			

Sample ID: LCS-56227	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 56227		RunNo: 73123							
Prep Date: 11/5/2020	Analysis Date: 11/6/2020		SeqNo: 2575306		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.6		5.000		72.7	30.4	154			

Sample ID: MB-56227	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 56227		RunNo: 73123							
Prep Date: 11/5/2020	Analysis Date: 11/6/2020		SeqNo: 2575307		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.7		10.00		87.5	30.4	154			

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 17 of 22

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2011061

11-Nov-20

Client: EOG
Project: Jackson B 57

Sample ID: mb-56177	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 56177	RunNo: 73150								
Prep Date: 11/3/2020	Analysis Date: 11/5/2020	SeqNo: 2573162	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	890		1000		89.3	75.3	105			

Sample ID: lcs-56177	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 56177	RunNo: 73150								
Prep Date: 11/3/2020	Analysis Date: 11/5/2020	SeqNo: 2573163	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.2	72.5	106			
Surr: BFB	960		1000		96.4	75.3	105			

Qualifiers:

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

Page 18 of 22

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

WO#: 2011061

11-Nov-20

Client: EOG
Project: Jackson B 57

Sample ID: mb-56177	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 56177	RunNo: 73150								
Prep Date: 11/3/2020	Analysis Date: 11/5/2020	SeqNo: 2573202	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		94.2	80	120			

Sample ID: LCS-56177	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 56177	RunNo: 73150								
Prep Date: 11/3/2020	Analysis Date: 11/5/2020	SeqNo: 2573203	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.0	80	120			
Toluene	0.95	0.050	1.000	0	95.4	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.6	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.9	80	120			

Qualifiers:

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

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#: 2011061

11-Nov-20

Client: EOG

Project: Jackson B 57

Sample ID: mb-56182	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 56182	RunNo: 73169								
Prep Date: 11/3/2020	Analysis Date: 11/5/2020	SeqNo: 2573512	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		99.6	70	130			
Surr: 4-Bromofluorobenzene	0.54		0.5000		107	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		101	70	130			
Surr: Toluene-d8	0.48		0.5000		96.4	70	130			

Sample ID: LCS-56182	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 56182	RunNo: 73169								
Prep Date: 11/3/2020	Analysis Date: 11/5/2020	SeqNo: 2573513	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		100	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		106	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		102	70	130			
Surr: Toluene-d8	0.48		0.5000		95.1	70	130			

Sample ID: mb-56212	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 56212	RunNo: 73190								
Prep Date: 11/4/2020	Analysis Date: 11/6/2020	SeqNo: 2574203	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.46		0.5000		92.4	70	130			
Surr: 4-Bromofluorobenzene	0.54		0.5000		107	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		99.6	70	130			
Surr: Toluene-d8	0.48		0.5000		96.5	70	130			

Sample ID: lcs-56212	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 56212	RunNo: 73190								
Prep Date: 11/4/2020	Analysis Date: 11/6/2020	SeqNo: 2574204	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.7	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		106	70	130			

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2011061

11-Nov-20

Client: EOG
Project: Jackson B 57

Sample ID: Ics-56212	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 56212	RunNo: 73190								
Prep Date: 11/4/2020	Analysis Date: 11/6/2020	SeqNo: 2574204	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.50		0.5000		99.8	70	130			
Surr: Toluene-d8	0.48		0.5000		96.9	70	130			

Sample ID: mb-56204	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 56204	RunNo: 73190								
Prep Date: 11/4/2020	Analysis Date: 11/7/2020	SeqNo: 2574217	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.8	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		102	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		96.2	70	130			
Surr: Toluene-d8	0.47		0.5000		93.5	70	130			

Sample ID: Ics-56204	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 56204	RunNo: 73190								
Prep Date: 11/4/2020	Analysis Date: 11/6/2020	SeqNo: 2574219	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.1	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		105	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		98.8	70	130			
Surr: Toluene-d8	0.47		0.5000		94.0	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

Page 21 of 22

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

WO#: 2011061

11-Nov-20

Client: EOG
Project: Jackson B 57

Sample ID: mb-56182	SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: PBS	Batch ID: 56182			RunNo: 73169						
Prep Date: 11/3/2020	Analysis Date: 11/5/2020			SeqNo: 2573536		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	510		500.0		102	70	130			

Sample ID: lcs-56182	SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch ID: 56182			RunNo: 73169						
Prep Date: 11/3/2020	Analysis Date: 11/5/2020			SeqNo: 2573537		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	82.5	70	130			
Surr: BFB	500		500.0		100	70	130			

Sample ID: mb-56212	SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: PBS	Batch ID: 56212			RunNo: 73190						
Prep Date: 11/4/2020	Analysis Date: 11/6/2020			SeqNo: 2574237		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	520		500.0		103	70	130			

Sample ID: lcs-56212	SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch ID: 56212			RunNo: 73190						
Prep Date: 11/4/2020	Analysis Date: 11/6/2020			SeqNo: 2574238		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	530		500.0		105	70	130			

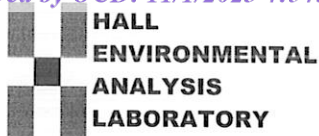
Sample ID: mb-56204	SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: PBS	Batch ID: 56204			RunNo: 73190						
Prep Date: 11/4/2020	Analysis Date: 11/7/2020			SeqNo: 2574251		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	490		500.0		97.2	70	130			

Sample ID: lcs-56204	SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch ID: 56204			RunNo: 73190						
Prep Date: 11/4/2020	Analysis Date: 11/6/2020			SeqNo: 2574252		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	490		500.0		97.8	70	130			

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2011061

RcptNo: 1

Received By: Emily Mocho

11/3/2020 8:00:00 AM

Completed By: Emily Mocho

11/3/2020 9:00:00 AM

Reviewed By: DAD 11/3/20

Chain of Custody

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

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°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: ENM 11/3/20

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes			
2	3.9	Good	Yes			

Chain-of-Custody Record

Client: EOG Resources, Inc.Mailing Address: On File

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC☐ Other☐ EDD (Type)Turn-Around Time: 5 day rush☒ Standard☐ Rush

Project Name:

Jackson B #57

Project #:

Project Manager:

Chase Suttle

Sampler:

Chase Suttle

On Ice:

☒ Yes☐ No# of Coolers: 2Cooler Temp (including CF): 2.4 ± 0.2-4 (°C)HEAL No. 2011061

Container Type and #

Preservative Type

ICE

601

002

003

004

005

006

007

008

009

010

011

012

013

014

015

016

017

018

019

020

021

022

023

024

025

026

027

028

029

030

031

032

033

034

035

036

037

038

039

040

041

042

043

044

045

046

047

048

049

050

051

052

053

054

055

056

057

058

059

060

061

062

063

064

065

066

067

068

069

070

071

072

073

074

075

076

077

078

079

080

081

082

083

084

085

086

087

088

089

090

091

092

093

094

095

096

097

098

099

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

303

304

305

306

307

308

309

310

311

312

313

314

315

316

317

318

319

320

321

322

323

324

325

326

327

328

329

330

331

332

333

334

335

336

337

Chain-of-Custody Record

Client: EOC Resources, Inc.Mailing Address: OnFile

Phone #:

email or Fax#:

QA/QC Package:

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

Project Manager:

Chase Suttle

Sampler:

Chase SuttleOn Ice: ☒ Yes ☐ No# of Coolers: 2Cooler Temp (including CF): 2.4 ± 0.2 (°C)

Container Type and #

Preservative Type

HEAL No.

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Turn-Around Time: 5 day rush☒ Standard ☐ Rush

Project Name:

Jackson B #57

Project #:

Project Manager:

Chase Suttle

Sampler:

Chase SuttleOn Ice: ☒ Yes ☐ No# of Coolers: 2Cooler Temp (including CF): 2.4 ± 0.2 (°C)

Container Type and #

Preservative Type

HEAL No.

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

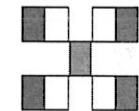
Time

Matrix

Sample Name

Date

Time

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Total Coliform (Present/Absent)

8270 (Semi-VOA)

8260 (VOA)

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

RCRA 8 Metals

PAHs by 8310 or 8270SIMS

EDB (Method 504.1)

8081 Pesticides/8082 PCB's

TPH:8015D(GRO / DRO / MRO)

BTEX / MTBE / TMB's (8021)

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

Remarks:

seal intact EM 11/3/20

Pg 2/2

Received by: EM Via: courier Date: 11/3/20 Time: 800Received by: EM Via: courier Date: 11/3/20 Time: 800Relinquished by: [Signature]Relinquished by: [Signature]Date: 11/2/20 Time: 12:05Date: 11/2/20 Time: 12:05



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 18, 2019

CHASE SETTLE

EOG Y RESOURCES, INC

105 SOUTH 4TH STREET

ARTESIA, NM 88210

RE: JACKSON B #57

Enclosed are the results of analyses for samples received by the laboratory on 10/17/19 14:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/16/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 -2C - 10' (H903557-01)

BTX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.16	1.00	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	15.4	1.00	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	20.0	1.00	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	25.1	3.00	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTX	61.6	6.00	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15600	16.0	10/18/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	690	50.0	10/18/2019	ND	208	104	200	2.62		
DRO >C10-C28*	2070	50.0	10/18/2019	ND	181	90.3	200	3.46		
EXT DRO >C28-C36	222	50.0	10/18/2019	ND						

Surrogate: 1-Chlorooctane 140 % 41-142

Surrogate: 1-Chlorooctadecane 155 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/16/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 -2C - 15' (H903557-02)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.78	1.00	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	34.4	1.00	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	29.9	1.00	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	34.7	3.00	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	104	6.00	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8560	16.0	10/18/2019	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1090	50.0	10/18/2019	ND	208	104	200	2.62	
DRO >C10-C28*	4110	50.0	10/18/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	603	50.0	10/18/2019	ND					

Surrogate: 1-Chlorooctane 157 % 41-142

Surrogate: 1-Chlorooctadecane 206 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/16/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 -2C - 20' (H903557-03)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.14	1.00	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	18.8	1.00	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	19.3	1.00	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	23.9	3.00	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	64.2	6.00	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9060	16.0	10/18/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	835	50.0	10/18/2019	ND	208	104	200	2.62	
DRO >C10-C28*	4000	50.0	10/18/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	594	50.0	10/18/2019	ND					

Surrogate: 1-Chlorooctane 227 % 41-142

Surrogate: 1-Chlorooctadecane 205 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 18, 2019

CHASE SETTLE

EOG Y RESOURCES, INC

105 SOUTH 4TH STREET

ARTESIA, NM 88210

RE: JACKSON B #57

Enclosed are the results of analyses for samples received by the laboratory on 10/17/19 14:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/16/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 -1C - 10' (H903556-01)

BTX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	9.83	1.00	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	78.5	1.00	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	74.8	1.00	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	102	3.00	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTX	265	6.00	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	10/18/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	2350	50.0	10/17/2019	ND	208	104	200	2.62		
DRO >C10-C28*	5780	50.0	10/17/2019	ND	181	90.3	200	3.46		
EXT DRO >C28-C36	834	50.0	10/17/2019	ND						

Surrogate: 1-Chlorooctane 200 % 41-142

Surrogate: 1-Chlorooctadecane 234 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/16/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 -1C - 15' (H903556-02)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	16.9	1.00	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	75.8	1.00	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	56.3	1.00	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	65.5	3.00	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	215	6.00	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	10/18/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1790	50.0	10/17/2019	ND	208	104	200	2.62		
DRO >C10-C28*	3460	50.0	10/17/2019	ND	181	90.3	200	3.46		
EXT DRO >C28-C36	511	50.0	10/17/2019	ND						

Surrogate: 1-Chlorooctane 168 % 41-142

Surrogate: 1-Chlorooctadecane 189 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/16/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 -1C - 20' (H903556-03)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.31	1.00	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	19.0	1.00	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	17.0	1.00	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	20.1	3.00	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	60.5	6.00	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10000	16.0	10/18/2019	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	402	50.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	1720	50.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	233	50.0	10/17/2019	ND					

Surrogate: 1-Chlorooctane 127 % 41-142

Surrogate: 1-Chlorooctadecane 148 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/16/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 -1C - 25' (H903556-04)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	10.1	1.00	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	44.7	1.00	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	36.1	1.00	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	41.2	3.00	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	132	6.00	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13200	16.0	10/18/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	546	50.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	1680	50.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	201	50.0	10/17/2019	ND					

Surrogate: 1-Chlorooctane 126 % 41-142

Surrogate: 1-Chlorooctadecane 147 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/16/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 -1C - 30' (H903556-05)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.091	0.050	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	0.156	0.050	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	0.090	0.050	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	<0.150	0.150	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	0.337	0.300	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4880	16.0	10/18/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND					

Surrogate: 1-Chlorooctane 90.6 % 41-142

Surrogate: 1-Chlorooctadecane 100 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/16/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 -1C - 35' (H903556-06)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.183	0.050	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	0.372	0.050	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	0.136	0.050	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	<0.150	0.150	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	0.793	0.300	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14600	16.0	10/18/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND					

Surrogate: 1-Chlorooctane 87.1 % 41-142

Surrogate: 1-Chlorooctadecane 92.2 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/16/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 -1C - 40' (H903556-07)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.816	0.050	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	2.85	0.050	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	2.67	0.050	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	3.18	0.150	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	9.52	0.300	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16.0	10/18/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	57.7	10.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	281	10.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	30.4	10.0	10/17/2019	ND					

Surrogate: 1-Chlorooctane 97.1 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/16/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 -1C - 45' (H903556-08)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.054	0.050	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	<0.050	0.050	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	<0.150	0.150	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	<0.300	0.300	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9760	16.0	10/18/2019	ND	432	108	400	0.00	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2019	ND	208	104	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/18/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	10/18/2019	ND					

Surrogate: 1-Chlorooctane 93.0 % 41-142

Surrogate: 1-Chlorooctadecane 99.6 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/16/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 -1C - 50' (H903556-09)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.087	0.050	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	0.092	0.050	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	<0.050	0.050	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	<0.150	0.150	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	<0.300	0.300	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/18/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/18/2019	ND	208	104	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/18/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	10/18/2019	ND					

Surrogate: 1-Chlorooctane 88.3 % 41-142

Surrogate: 1-Chlorooctadecane 92.1 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Project Name:

Jackson B #57

Company Name: EOG Resources Inc.

Project #: 2RP-5149

Company Address: 104 South 4th Street

Project Loc:

Jackson B #57

City/State/Zip: Artesia, NM 88210

PO #: 205-0750

Telephone No: 575-748-1471

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

e-mail:

Chase.Settle@eogresources.com

(lab use only)

ORDER #: H19035556

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	Matrix	TPH: 8015B EXTENDED	TPH: TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX: 8021B	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
#2-1C-10'				10/16/2019	9:39 AM		1	X								DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	X															X	
#2-1C-15'				10/16/2019	9:46 AM		1	X									X															X	
#2-1C-20'				10/16/2019	9:56 AM		1	X									X															X	
#2-1C-25'				10/16/2019	10:12 AM		1	X									X															X	
#2-1C-30'				10/16/2019	10:25 AM		1	X									X															X	
#2-1C-35'				10/16/2019	10:38 AM		1	X									X															X	
#2-1C-40'				10/16/2019	10:50 AM		1	X									X															X	
#2-1C-45'				10/16/2019	11:27 AM		1	X									X															X	
#2-1C-50'				10/16/2019	11:49 AM		1	X									X															X	

TPH EXTENDED NEEDED

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Custody seals on container(s)?

Sample Hand Delivered by Sampler/Client Rep.?

Temperature Upon Receipt:

by Courier? UPS DHL FedEx Lone Star

+4

0.88 1.20 °C

#97



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 18, 2019

CHASE SETTLE

EOG Y RESOURCES, INC

105 SOUTH 4TH STREET

ARTESIA, NM 88210

RE: JACKSON B #57

Enclosed are the results of analyses for samples received by the laboratory on 10/17/19 14:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -2C - 10' (H903555-01)

BTX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	114	5.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	327	5.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	168	5.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	159	15.0	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTX	769	30.0	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1780	16.0	10/18/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	6690	50.0	10/18/2019	ND	218	109	200	1.58		
DRO >C10-C28*	10100	50.0	10/18/2019	ND	222	111	200	1.29		
EXT DRO >C28-C36	1610	50.0	10/18/2019	ND						

Surrogate: 1-Chlorooctane 287 % 41-142

Surrogate: 1-Chlorooctadecane 339 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -2C - 15' (H903555-02)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	117	5.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	337	5.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	182	5.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	174	15.0	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	810	30.0	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1650	16.0	10/18/2019	ND	432	108	400	0.00	QM-07	
TPH 8015M	mg/kg		Analyzed By: MS						S-06	

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5080	50.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	8280	50.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	1330	50.0	10/18/2019	ND					

Surrogate: 1-Chlorooctane 252 % 41-142

Surrogate: 1-Chlorooctadecane 303 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -2C - 20' (H903555-03)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	33.1	1.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	150	1.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	98.5	1.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	103	3.00	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	384	6.00	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	10/18/2019	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2850	50.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	5510	50.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	847	50.0	10/18/2019	ND					

Surrogate: 1-Chlorooctane 206 % 41-142

Surrogate: 1-Chlorooctadecane 246 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -2C - 25' (H903555-04)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	42.8	5.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	125	5.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	68.9	5.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	68.6	15.0	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	305	30.0	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	10/18/2019	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1160	50.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	1730	50.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	213	50.0	10/18/2019	ND					

Surrogate: 1-Chlorooctane 147 % 41-142

Surrogate: 1-Chlorooctadecane 165 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -2C - 30' (H903555-05)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	97.8	5.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	304	5.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	168	5.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	171	15.0	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	741	30.0	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	10/18/2019	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5710	50.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	8870	50.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	1410	50.0	10/18/2019	ND					

Surrogate: 1-Chlorooctane 264 % 41-142

Surrogate: 1-Chlorooctadecane 317 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -2C - 35' (H903555-06)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	136	5.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	399	5.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	212	5.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	205	15.0	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	952	30.0	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	7910	50.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	11900	50.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	1950	50.0	10/18/2019	ND					

Surrogate: 1-Chlorooctane 318 % 41-142

Surrogate: 1-Chlorooctadecane 384 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -2C - 40' (H903555-07)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	93.5	5.00	10/18/2019	ND	1.59	79.6	2.00	2.02	QM-07
Toluene*	264	5.00	10/18/2019	ND	1.58	78.9	2.00	2.98	QM-07
Ethylbenzene*	165	5.00	10/18/2019	ND	1.60	80.2	2.00	1.22	QM-07
Total Xylenes*	176	15.0	10/18/2019	ND	4.82	80.3	6.00	0.454	QM-07
Total BTEX	698	30.0	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/18/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	4350	50.0	10/17/2019	ND	208	104	200	2.62		
DRO >C10-C28*	7000	50.0	10/17/2019	ND	181	90.3	200	3.46	QM-07	
EXT DRO >C28-C36	1030	50.0	10/17/2019	ND						

Surrogate: 1-Chlorooctane 221 % 41-142

Surrogate: 1-Chlorooctadecane 263 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -2C - 45' (H903555-08)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	15.2	1.00	10/17/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	43.8	1.00	10/17/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	30.1	1.00	10/17/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	33.1	3.00	10/17/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	122	6.00	10/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	10/18/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	287	10.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	716	10.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	107	10.0	10/17/2019	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -2C - 50' (H903555-09)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	112	5.00	10/18/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	307	5.00	10/18/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	188	5.00	10/18/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	197	15.0	10/18/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	804	30.0	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/18/2019	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5040	50.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	7980	50.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	1220	50.0	10/17/2019	ND					

Surrogate: 1-Chlorooctane 222 % 41-142

Surrogate: 1-Chlorooctadecane 269 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -2C - 55' (H903555-10)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	66.4	1.00	10/17/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	203	1.00	10/17/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	132	1.00	10/17/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	150	3.00	10/17/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	551	6.00	10/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/18/2019	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2790	50.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	4870	50.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	739	50.0	10/17/2019	ND					

Surrogate: 1-Chlorooctane 177 % 41-142

Surrogate: 1-Chlorooctadecane 208 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -2C - 60' (H903555-11)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.633	0.050	10/17/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	0.633	0.050	10/17/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	0.170	0.050	10/17/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	0.181	0.150	10/17/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	1.62	0.300	10/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/18/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND					

Surrogate: 1-Chlorooctane 91.1 % 41-142

Surrogate: 1-Chlorooctadecane 91.8 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -2C - 65' (H903555-12)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.480	0.050	10/17/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	0.668	0.050	10/17/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	0.193	0.050	10/17/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	<0.150	0.150	10/17/2019	ND	4.82	80.3	6.00	0.454	
Total BTEx	1.47	0.300	10/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/18/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND					

Surrogate: 1-Chlorooctane 94.9 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -2C - 70' (H903555-13)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2019	ND	1.59	79.6	2.00	2.02		
Toluene*	<0.050	0.050	10/17/2019	ND	1.58	78.9	2.00	2.98		
Ethylbenzene*	<0.050	0.050	10/17/2019	ND	1.60	80.2	2.00	1.22		
Total Xylenes*	<0.150	0.150	10/17/2019	ND	4.82	80.3	6.00	0.454		
Total BTEX	<0.300	0.300	10/17/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/18/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND					

Surrogate: 1-Chlorooctane 94.4 % 41-142

Surrogate: 1-Chlorooctadecane 99.1 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -2C - 75' (H903555-14)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.108	0.050	10/17/2019	ND	1.59	79.6	2.00	2.02	
Toluene*	0.265	0.050	10/17/2019	ND	1.58	78.9	2.00	2.98	
Ethylbenzene*	0.175	0.050	10/17/2019	ND	1.60	80.2	2.00	1.22	
Total Xylenes*	0.197	0.150	10/17/2019	ND	4.82	80.3	6.00	0.454	
Total BTEX	0.745	0.300	10/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/18/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2019	ND	208	104	200	2.62	
DRO >C10-C28*	<10.0	10.0	10/17/2019	ND	181	90.3	200	3.46	
EXT DRO >C28-C36	<10.0	10.0	10/17/2019	ND					

Surrogate: 1-Chlorooctane 96.1 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

81 jo 21 ebgd



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Company Name: EOG Resources Inc.

Company Address: 104 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-1471

Sampler Signature: *[Signature]*

Fax No:

e-mail:

Chase.Settle@eogresources.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name: Jackson B #57

Project #: ZRP-5149

Project Loc: Jackson B #57

PO #: 205-0750

(lab use only)

ORDER #: H9035555

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 8015B EXTENDED	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg	Volatiles	Semivolatiles	BTEX: 8021B	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24	Standard TAT	
	#1-2C- 10'			10/15/2019	3:37 PM		1	X								S	X														X	
1	#1-2C- 15'			10/15/2019	3:42 PM		1	X								S	X														X	
2	#1-2C- 20'			10/15/2019	3:50 PM		1	X								S	X														X	
3	#1-2C- 25'			10/15/2019	4:06 PM		1	X								S	X														X	
4	#1-2C- 30'			10/15/2019	4:17 PM		1	X								S	X														X	
5	#1-2C- 35'			10/15/2019	4:27 PM		1	X								S	X														X	
6	#1-2C- 40'			10/15/2019	4:38 PM		1	X								S	X														X	
7	#1-2C- 45'			10/15/2019	4:49 PM		1	X								S	X														X	
8	#1-2C- 50'			10/15/2019	5:06 PM		1	X								S	X														X	
9	#1-2C- 55'			10/15/2019	5:19 PM		1	X								S	X														X	
10	#1-2C- 55'			10/15/2019	5:19 PM		1	X								S	X														X	

Special Instructions: **TPH EXTENDED NEEDED**

Relinquished by: *[Signature]*

Relinquished by: *[Signature]*

Relinquished by: *[Signature]*

Date: 10/17/19

Date: 10/17/19

Date: 10/17/19

Time: 2:53

Time: 2:53

Time: 2:53

Received by: *[Signature]*

Received by: *[Signature]*

Received by: *[Signature]*

Date: 10/17/19

Date: 10/17/19

Date: 10/17/19

Time: 14:53

Time: 14:53

Time: 14:53

Laboratory Comments:

Sample Containers Intact? ☒

VOCs Free of Headspace? ☒

Labels on container(s) ☒

Custody seals on container(s) ☒

Sample Hand Delivered by Sampler/Client Rep. ? ☒

by Courier? ☒

UPS ☒ DHL ☒ FedEx ☒ Lone Star ☒

Temperature Upon Receipt: 0.8 °C

0.8 °C

#97

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

Project Manager: Chase Settle

Company Name EOG Resources Inc.

Company Address: 104 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-1471

Sampler Signature:

Fax No.:

e-mail:

Chase.Settle@eogresources.com

Report Format: ☒ Standard

☐ TRRP☐ NPDES

Project Name:

Jackson B #57

Project #: 2RP-5149

Project Location:

Jackson B #57

PO #: 205-0750

(lab use only)

ORDER #: H9D3555

[illegible]

Special Instructions:

TPH EXTENDED NEEDED

Laboratory Comments:

VOCs Free of Headspace

Custody seals on container(s)

Sample Hand Delivered

by Courier? UPS D

Temperature Upon Receipt:

2.7.1.2

#9



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 18, 2019

CHASE SETTLE

EOG Y RESOURCES, INC

105 SOUTH 4TH STREET

ARTESIA, NM 88210

RE: JACKSON B #57

Enclosed are the results of analyses for samples received by the laboratory on 10/17/19 14:53.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -1C - 10' (H903554-01)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	32.5	1.00	10/17/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	165	1.00	10/17/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	101	1.00	10/17/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	108	3.00	10/17/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	407	6.00	10/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/18/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1630	50.0	10/17/2019	ND	218	109	200	1.58	QM-07	
DRO >C10-C28*	2610	50.0	10/17/2019	ND	222	111	200	1.29	QM-07	
EXT DRO >C28-C36	344	50.0	10/17/2019	ND						

Surrogate: 1-Chlorooctane 162 % 41-142

Surrogate: 1-Chlorooctadecane 185 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -1C - 15' (H903554-02)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	103	5.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	345	5.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	183	5.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	180	15.0	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	810	30.0	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1540	16.0	10/18/2019	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3320	50.0	10/17/2019	ND	218	109	200	1.58	
DRO >C10-C28*	5100	50.0	10/17/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	657	50.0	10/17/2019	ND					

Surrogate: 1-Chlorooctane 206 % 41-142

Surrogate: 1-Chlorooctadecane 263 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -1C - 20' (H903554-03)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	49.4	1.00	10/17/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	164	1.00	10/17/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	95.1	1.00	10/17/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	97.3	3.00	10/17/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	406	6.00	10/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	10/18/2019	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3060	50.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	5580	50.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	887	50.0	10/18/2019	ND					

Surrogate: 1-Chlorooctane 213 % 41-142

Surrogate: 1-Chlorooctadecane 246 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -1C - 25' (H903554-04)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	55.7	1.00	10/17/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	159	1.00	10/17/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	88.8	1.00	10/17/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	91.0	3.00	10/17/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	395	6.00	10/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12800	16.0	10/18/2019	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1850	50.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	3330	50.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	491	50.0	10/18/2019	ND					

Surrogate: 1-Chlorooctane 177 % 41-142

Surrogate: 1-Chlorooctadecane 214 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -1C - 30' (H903554-05)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	90.1	5.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	258	5.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	141	5.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	143	15.0	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	632	30.0	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	10/18/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1160	10.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	1270	10.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	191	10.0	10/18/2019	ND					

Surrogate: 1-Chlorooctane 140 % 41-142

Surrogate: 1-Chlorooctadecane 143 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -1C - 35' (H903554-06)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.57	1.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	41.1	1.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	37.4	1.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	43.7	3.00	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	131	6.00	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	10/18/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	322	10.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	942	10.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	106	10.0	10/18/2019	ND					

Surrogate: 1-Chlorooctane 126 % 41-142

Surrogate: 1-Chlorooctadecane 131 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -1C - 40' (H903554-07)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	32.6	1.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	142	1.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	86.5	1.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	105	3.00	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEx	366	6.00	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	10/18/2019	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3050	50.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	7340	50.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	1140	50.0	10/18/2019	ND					

Surrogate: 1-Chlorooctane 224 % 41-142

Surrogate: 1-Chlorooctadecane 279 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -1C - 45' (H903554-08)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	16.9	1.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	81.9	1.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	58.0	1.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	63.8	3.00	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	221	6.00	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	10/18/2019	ND	432	108	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
				S-06					

Surrogate: 1-Chlorooctane		166 %	41-142							
Surrogate: 1-Chlorooctadecane		202 %	37.6-147							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -1C - 50' (H903554-09)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	38.5	1.00	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	131	1.00	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	81.0	1.00	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	83.5	3.00	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	334	6.00	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5040	16.0	10/18/2019	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2130	50.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	3810	50.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	575	50.0	10/18/2019	ND					

Surrogate: 1-Chlorooctane 185 % 41-142

Surrogate: 1-Chlorooctadecane 228 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -1C - 55' (H903554-10)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.77	0.200	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	16.6	0.200	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	13.4	0.200	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	14.7	0.600	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	48.6	1.20	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	10/18/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	146	10.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	743	10.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	107	10.0	10/18/2019	ND					

Surrogate: 1-Chlorooctane 124 % 41-142

Surrogate: 1-Chlorooctadecane 129 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -1C - 60' (H903554-11)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	58.8	1.00	10/18/2019	ND	1.65	82.5	2.00	4.24		
Toluene*	202	1.00	10/18/2019	ND	1.69	84.7	2.00	2.07		
Ethylbenzene*	121	1.00	10/18/2019	ND	1.65	82.7	2.00	3.95		
Total Xylenes*	125	3.00	10/18/2019	ND	4.98	82.9	6.00	3.25		
Total BTEX	507	6.00	10/18/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/18/2019	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6260	50.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	11000	50.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	1760	50.0	10/18/2019	ND					

Surrogate: 1-Chlorooctane 283 % 41-142

Surrogate: 1-Chlorooctadecane 359 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/17/2019
Reported: 10/18/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 10/15/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 -1C - 75' (H903554-12)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.558	0.050	10/18/2019	ND	1.65	82.5	2.00	4.24	
Toluene*	0.914	0.050	10/18/2019	ND	1.69	84.7	2.00	2.07	
Ethylbenzene*	0.591	0.050	10/18/2019	ND	1.65	82.7	2.00	3.95	
Total Xylenes*	0.779	0.150	10/18/2019	ND	4.98	82.9	6.00	3.25	
Total BTEX	2.84	0.300	10/18/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/18/2019	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	20.9	10.0	10/18/2019	ND	218	109	200	1.58	
DRO >C10-C28*	250	10.0	10/18/2019	ND	222	111	200	1.29	
EXT DRO >C28-C36	45.0	10.0	10/18/2019	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 121 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

91 jo 51 ebgd

Project Manager: Chase Settle

Company Name: EOG Resources Inc.

Company Address: 104 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-1471

Sampler Signature: [Signature]

e-mail: Chase.Settle@eoqresources.com

Project Name: Jackson B #57

Project #: 2RP-5149

Project Loc: Jackson B #57

PO #: 205-0750

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)

ORDER #: H903554

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Matrix	TPH: 8015B EXTENDED	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX: 8021B	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
1	#1-1C-10'			10/15/2019	9:51 AM		1	X									S	X															
2	#1-1C-15'			10/15/2019	9:58 AM		1	X									S	X															
3	#1-1C-20'			10/15/2019	10:05 AM		1	X									S	X															
4	#1-1C-25'			10/15/2019	10:16 AM		1	X									S	X															
5	#1-1C-30'			10/15/2019	10:29 AM		1	X									S	X															
6	#1-1C-35'			10/15/2019	10:42 AM		1	X									S	X															
7	#1-1C-40'			10/15/2019	10:52 AM		1	X									S	X															
8	#1-1C-45'			10/15/2019	11:12 AM		1	X									S	X															
9	#1-1C-50'			10/15/2019	11:27 AM		1	X									S	X															
10	#1-1C-55'			10/15/2019	11:43 AM		1	X									S	X															

TPH EXTENDED NEEDED

Laboratory Comments:

Sample Containers Intact? ☒ N
VOCs Free of Headspace? ☒ N
Labels on container(s) ☒ N
Custody seals on container(s) ☒ N
Sample Hand Delivered by Sampler/Client Rep.? ☒ N
by Courier? ☒ N
UPS ☒ N
DHL ☒ N
FedEx ☒ N
Lone Star ☒ N

Temperature Upon Receipt: 8.8 °C
by Courier? ☒ N
UPS ☒ N
DHL ☒ N
FedEx ☒ N
Lone Star ☒ N



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 09, 2019

CHASE SETTLE

EOG Y RESOURCES, INC

105 SOUTH 4TH STREET

ARTESIA, NM 88210

RE: JACKSON B #57

Enclosed are the results of analyses for samples received by the laboratory on 07/02/19 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 07/02/2019
Reported: 07/09/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 - 2 - 30' (H902281-01)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	20.1	1.00	07/08/2019	ND	1.52	76.2	2.00	0.362	
Toluene*	98.9	1.00	07/08/2019	ND	1.71	85.4	2.00	0.901	
Ethylbenzene*	69.4	1.00	07/08/2019	ND	1.70	85.1	2.00	3.28	
Total Xylenes*	74.9	3.00	07/08/2019	ND	5.12	85.3	6.00	3.78	
Total BTX	263	6.00	07/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17400	16.0	07/09/2019	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1920	50.0	07/05/2019	ND	203	102	200	0.445		
DRO >C10-C28*	4470	50.0	07/05/2019	ND	213	107	200	0.589		
EXT DRO >C28-C36	683	50.0	07/05/2019	ND						

Surrogate: 1-Chlorooctane 256 % 41-142

Surrogate: 1-Chlorooctadecane 221 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 07/02/2019
Reported: 07/09/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 - 2 - 35' (H902281-02)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2019	ND	1.52	76.2	2.00	0.362	
Toluene*	0.635	0.050	07/08/2019	ND	1.71	85.4	2.00	0.901	
Ethylbenzene*	1.95	0.050	07/08/2019	ND	1.70	85.1	2.00	3.28	
Total Xylenes*	2.87	0.150	07/08/2019	ND	5.12	85.3	6.00	3.78	
Total BTEX	5.46	0.300	07/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14400	16.0	07/09/2019	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	94.8	10.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	568	10.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	82.5	10.0	07/05/2019	ND					

Surrogate: 1-Chlorooctane 113 % 41-142

Surrogate: 1-Chlorooctadecane 127 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 07/02/2019
Reported: 07/09/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 - 2 - 40' (H902281-03)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.268	0.050	07/08/2019	ND	1.52	76.2	2.00	0.362	
Toluene*	1.47	0.050	07/08/2019	ND	1.71	85.4	2.00	0.901	
Ethylbenzene*	2.44	0.050	07/08/2019	ND	1.70	85.1	2.00	3.28	
Total Xylenes*	3.23	0.150	07/08/2019	ND	5.12	85.3	6.00	3.78	
Total BTEX	7.41	0.300	07/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	18400	16.0	07/09/2019	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	46.6	10.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	310	10.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	54.3	10.0	07/05/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 07/02/2019
Reported: 07/09/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 - 3 - 30' (H902281-04)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.106	0.050	07/08/2019	ND	1.52	76.2	2.00	0.362	
Toluene*	0.939	0.050	07/08/2019	ND	1.71	85.4	2.00	0.901	
Ethylbenzene*	1.31	0.050	07/08/2019	ND	1.70	85.1	2.00	3.28	
Total Xylenes*	1.72	0.150	07/08/2019	ND	5.12	85.3	6.00	3.78	
Total BTEX	4.07	0.300	07/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	07/09/2019	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	48.7	10.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	1060	10.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	234	10.0	07/05/2019	ND					

Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 140 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 07/02/2019
Reported: 07/09/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 - 3 - 35' (H902281-05)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.269	0.050	07/08/2019	ND	1.52	76.2	2.00	0.362	
Toluene*	1.97	0.050	07/08/2019	ND	1.71	85.4	2.00	0.901	
Ethylbenzene*	1.80	0.050	07/08/2019	ND	1.70	85.1	2.00	3.28	
Total Xylenes*	2.19	0.150	07/08/2019	ND	5.12	85.3	6.00	3.78	
Total BTEX	6.23	0.300	07/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14800	16.0	07/09/2019	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	39.7	10.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	205	10.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	40.5	10.0	07/05/2019	ND					

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 07/02/2019
Reported: 07/09/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 - 4 - 30' (H902281-06)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.33	0.200	07/08/2019	ND	1.52	76.2	2.00	0.362	
Toluene*	12.2	0.200	07/08/2019	ND	1.71	85.4	2.00	0.901	
Ethylbenzene*	13.4	0.200	07/08/2019	ND	1.70	85.1	2.00	3.28	
Total Xylenes*	17.1	0.600	07/08/2019	ND	5.12	85.3	6.00	3.78	
Total BTEX	44.0	1.20	07/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21600	16.0	07/09/2019	ND	432	108	400	7.69	
TPH 8015M		mg/kg		Analyzed By: MS					
				S-06					

Surrogate: 1-Chlorooctane		157 %	41-142							
Surrogate: 1-Chlorooctadecane		172 %	37.6-147							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 07/02/2019
Reported: 07/09/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 - 4 - 35' (H902281-07)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/08/2019	ND	1.52	76.2	2.00	0.362	
Toluene*	0.715	0.050	07/08/2019	ND	1.71	85.4	2.00	0.901	
Ethylbenzene*	1.42	0.050	07/08/2019	ND	1.70	85.1	2.00	3.28	
Total Xylenes*	1.98	0.150	07/08/2019	ND	5.12	85.3	6.00	3.78	
Total BTEX	4.11	0.300	07/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20600	16.0	07/09/2019	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	38.7	10.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	284	10.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	42.0	10.0	07/05/2019	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 07/02/2019
Reported: 07/09/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #2 - 4 - 40' (H902281-08)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/06/2019	ND	1.52	76.2	2.00	0.362		
Toluene*	<0.050	0.050	07/06/2019	ND	1.71	85.4	2.00	0.901		
Ethylbenzene*	<0.050	0.050	07/06/2019	ND	1.70	85.1	2.00	3.28		
Total Xylenes*	<0.150	0.150	07/06/2019	ND	5.12	85.3	6.00	3.78		
Total BTEX	<0.300	0.300	07/06/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	20000	16.0	07/09/2019	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	<10.0	10.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	<10.0	10.0	07/05/2019	ND					

Surrogate: 1-Chlorooctane 98.4 % 41-142

Surrogate: 1-Chlorooctadecane 114 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

11 of 11 ePage

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle


Company Name: EOG Y Resources Inc.

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-1471

Fax No:

Sampler Signature: 

e-mail:

Chase.Settle@eogresources.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 205-0750

Project Name:

Jackson B #57

Project #: 288-5149

Project Loc:

(lab use only)

ORDER #: H902281

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX: 8021B	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	#2-2-30'			6-26-19	12:20 P		1	X									X														X
2	#2-2-35'				12:33 P		1	X									X														X
3	#2-2-40'				12:43 P		1	X									X														X
4	#2-3-30'				10:40 A		1	X									X														X
5	#2-3-35'				10:52 A		1	X									X														X
6	#2-4-30'				11:31 A		1	X									X														X
7	#2-4-35'				11:39 A		1	X									X														X
8	#2-4-40'				11:50 A		1	X									X														X

Special Instructions:

TPH Extended needed.

Laboratory Comments:

Sample Containers Intact? ☒ Y ☐ N
VOCs Free of Headspace? ☒ Y ☐ N
Labels on container(s) ☒ Y ☐ N
Custody seals on container(s) ☒ Y ☐ N
Custody seals on cooler(s) ☒ Y ☐ N
Sample Hand Delivered ☒ Y ☐ N
by Sampler/Client Rep. ? ☒ Y ☐ N
by Courier? ☒ Y ☐ N
UPS ☒ Y ☐ N
DHL ☒ Y ☐ N
FedEx ☒ Y ☐ N
Lone Star ☒ Y ☐ N

Relinquished by: 

Date: 7-2-19

Time: 11:30

Received by: 

Date: 7/2/19

Time: 11:30

Relinquished by:

Date:

Time:

Received by: ELDT:

Date:

Time:

Temperature Upon Receipt:

4.9 °C



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 09, 2019

CHASE SETTLE

EOG Y RESOURCES, INC

105 SOUTH 4TH STREET

ARTESIA, NM 88210

RE: JACKSON B #57

Enclosed are the results of analyses for samples received by the laboratory on 07/02/19 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 07/02/2019
Reported: 07/09/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 - 2 - 55' (H902280-01)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	8.88	0.500	07/08/2019	ND	1.47	73.3	2.00	1.45	
Toluene*	46.7	0.500	07/08/2019	ND	1.76	87.8	2.00	1.27	
Ethylbenzene*	36.3	0.500	07/08/2019	ND	1.72	85.8	2.00	5.40	
Total Xylenes*	32.1	1.50	07/08/2019	ND	5.23	87.1	6.00	4.39	
Total BTEx	124	3.00	07/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/09/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	867	50.0	07/05/2019	ND	203	102	200	0.445	QR-03
DRO >C10-C28*	2130	50.0	07/05/2019	ND	213	107	200	0.589	QR-03, QM-07
EXT DRO >C28-C36	250	50.0	07/05/2019	ND					

Surrogate: 1-Chlorooctane 163 % 41-142

Surrogate: 1-Chlorooctadecane 148 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 07/02/2019
Reported: 07/09/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 - 2 - 60' (H902280-02)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	87.8	2.00	07/08/2019	ND	1.47	73.3	2.00	1.45	
Toluene*	348	2.00	07/08/2019	ND	1.76	87.8	2.00	1.27	
Ethylbenzene*	267	2.00	07/08/2019	ND	1.72	85.8	2.00	5.40	
Total Xylenes*	226	6.00	07/08/2019	ND	5.23	87.1	6.00	4.39	
Total BTEX	928	12.0	07/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/09/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	5880	50.0	07/05/2019	ND	203	102	200	0.445		
DRO >C10-C28*	12000	50.0	07/05/2019	ND	213	107	200	0.589		
EXT DRO >C28-C36	2110	50.0	07/05/2019	ND						

Surrogate: 1-Chlorooctane 502 % 41-142

Surrogate: 1-Chlorooctadecane 359 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 07/02/2019
Reported: 07/09/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 - 2 - 65' (H902280-03)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.354	0.050	07/08/2019	ND	1.47	73.3	2.00	1.45	
Toluene*	0.610	0.050	07/08/2019	ND	1.76	87.8	2.00	1.27	
Ethylbenzene*	0.128	0.050	07/08/2019	ND	1.72	85.8	2.00	5.40	
Total Xylenes*	<0.150	0.150	07/08/2019	ND	5.23	87.1	6.00	4.39	
Total BTEx	1.09	0.300	07/08/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/09/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	78.4	10.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	43.8	10.0	07/05/2019	ND					

Surrogate: 1-Chlorooctane 94.9 % 41-142

Surrogate: 1-Chlorooctadecane 110 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 07/02/2019
Reported: 07/09/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 - 3 - 40' (H902280-04)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	26.4	1.00	07/05/2019	ND	1.47	73.3	2.00	1.45	
Toluene*	113	1.00	07/05/2019	ND	1.76	87.8	2.00	1.27	
Ethylbenzene*	90.1	1.00	07/05/2019	ND	1.72	85.8	2.00	5.40	
Total Xylenes*	74.9	3.00	07/05/2019	ND	5.23	87.1	6.00	4.39	
Total BTEX	305	6.00	07/05/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/09/2019	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2140	50.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	5050	50.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	757	50.0	07/05/2019	ND					

Surrogate: 1-Chlorooctane 262 % 41-142

Surrogate: 1-Chlorooctadecane 217 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 07/02/2019
Reported: 07/09/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 - 3 - 50' (H902280-05)

BTEX 8021B		mg/kg		Analyzed By: BF				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	54.2	1.00	07/05/2019	ND	1.47	73.3	2.00	1.45	
Toluene*	194	1.00	07/05/2019	ND	1.76	87.8	2.00	1.27	
Ethylbenzene*	146	1.00	07/05/2019	ND	1.72	85.8	2.00	5.40	
Total Xylenes*	128	3.00	07/05/2019	ND	5.23	87.1	6.00	4.39	
Total BTEX	522	6.00	07/05/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/09/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3290	50.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	6470	50.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	1100	50.0	07/05/2019	ND					

Surrogate: 1-Chlorooctane 317 % 41-142

Surrogate: 1-Chlorooctadecane 242 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 07/02/2019
Reported: 07/09/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 - 3 - 60' (H902280-06)

BTEx 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.109	0.050	07/05/2019	ND	1.47	73.3	2.00	1.45	
Toluene*	0.129	0.050	07/05/2019	ND	1.76	87.8	2.00	1.27	
Ethylbenzene*	<0.050	0.050	07/05/2019	ND	1.72	85.8	2.00	5.40	
Total Xylenes*	<0.150	0.150	07/05/2019	ND	5.23	87.1	6.00	4.39	
Total BTEx	<0.300	0.300	07/05/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/09/2019	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.8	10.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	19.1	10.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	24.5	10.0	07/05/2019	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 07/02/2019
Reported: 07/09/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/26/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 - 4 - 55' (H902280-07)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.313	0.050	07/06/2019	ND	1.52	76.2	2.00	0.362	
Toluene*	0.510	0.050	07/06/2019	ND	1.71	85.4	2.00	0.901	
Ethylbenzene*	0.182	0.050	07/06/2019	ND	1.70	85.1	2.00	3.28	
Total Xylenes*	0.167	0.150	07/06/2019	ND	5.12	85.3	6.00	3.78	
Total BTEX	1.17	0.300	07/06/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/09/2019	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/05/2019	ND	203	102	200	0.445	
DRO >C10-C28*	19.5	10.0	07/05/2019	ND	213	107	200	0.589	
EXT DRO >C28-C36	<10.0	10.0	07/05/2019	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST


Project Manager: Chase Settle

Company Name: EOG Y Resources Inc.

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-1471

Sampler Signature: 

e-mail:

Chase.Settle@eogresources.com

Fax No:

Report Format: ☒ Standard☐ TRRP☐ NPDES

Project Name:

Jackson B #57

Project #:

2 RP-5149

Project Loc:

PO #: 205-0750

(lab use only)

ORDER #:

H902280

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Preservation & # of Containers

Matrix

Ice

HNO₃

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH: 8015B

TPH: TX 1005 TX 1006

Cations (Ca, Mg, Na, K)

Anions (Cl, SO₄, Alkalinity)

SAR / ESP / CEC

Metals: As Ag Ba Cd Cr Pb Hg Se

Volatiles

Semivolatiles

BTEX: 8021B

RCI

N.O.R.M.

Chlorides

SAR

RUSH TAT

(Pre-Schedule) 24, 48, 72 hrs

Standard TAT

Special Instructions:

TPH Extended Field

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)

Custody seals on container(s)

Custody seals on cooler(s)

Sample Hand Delivered

by Sampler/Client Rep.?

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:

4.9 °C

Date

Date

Date

Time

Time

Time

Received by:

Received by:

Received by:

Date

Date

Date

Time

Time

Time

Temperature Upon Receipt:

4.9 °C



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 26, 2019

CHASE SETTLE

EOG Y RESOURCES, INC

105 SOUTH 4TH STREET

ARTESIA, NM 88210

RE: JACKSON B #57

Enclosed are the results of analyses for samples received by the laboratory on 06/25/19 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2019
Reported: 06/26/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/25/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: #2-1 - 20' (H902171-01)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.93	0.500	06/26/2019	ND	2.00	99.9	2.00	0.240	
Toluene*	22.0	0.500	06/26/2019	ND	2.04	102	2.00	0.00766	
Ethylbenzene*	16.1	0.500	06/26/2019	ND	1.93	96.7	2.00	1.92	
Total Xylenes*	18.1	1.50	06/26/2019	ND	5.86	97.6	6.00	1.91	
Total BTEx	61.2	3.00	06/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	06/26/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	419	50.0	06/25/2019	ND	211	106	200	0.273		
DRO >C10-C28*	1290	50.0	06/25/2019	ND	201	100	200	1.36		
EXT DRO >C28-C36	218	50.0	06/25/2019	ND						

Surrogate: 1-Chlorooctane 179 % 41-142

Surrogate: 1-Chlorooctadecane 191 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2019
Reported: 06/26/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/25/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: #2-1 - 25' (H902171-02)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	46.8	2.00	06/26/2019	ND	2.00	99.9	2.00	0.240	
Toluene*	220	2.00	06/26/2019	ND	2.04	102	2.00	0.00766	
Ethylbenzene*	145	2.00	06/26/2019	ND	1.93	96.7	2.00	1.92	
Total Xylenes*	158	6.00	06/26/2019	ND	5.86	97.6	6.00	1.91	
Total BTEX	569	12.0	06/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10600	16.0	06/26/2019	ND	416	104	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4920	50.0	06/25/2019	ND	211	106	200	0.273	
DRO >C10-C28*	8860	50.0	06/25/2019	ND	201	100	200	1.36	
EXT DRO >C28-C36	1390	50.0	06/25/2019	ND					

Surrogate: 1-Chlorooctane 296 % 41-142

Surrogate: 1-Chlorooctadecane 369 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2019
Reported: 06/26/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/25/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: #2-1 - 30' (H902171-03)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2019	ND	2.00	99.9	2.00	0.240	
Toluene*	0.066	0.050	06/26/2019	ND	2.04	102	2.00	0.00766	
Ethylbenzene*	0.070	0.050	06/26/2019	ND	1.93	96.7	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/26/2019	ND	5.86	97.6	6.00	1.91	
Total BTEx	<0.300	0.300	06/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	24000	16.0	06/26/2019	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2019	ND	211	106	200	0.273	
DRO >C10-C28*	11.2	10.0	06/25/2019	ND	201	100	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					

Surrogate: 1-Chlorooctane 129 % 41-142

Surrogate: 1-Chlorooctadecane 136 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2019
Reported: 06/26/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/25/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: #2-1 - 35' (H902171-04)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2019	ND	2.00	99.9	2.00	0.240	
Toluene*	<0.050	0.050	06/26/2019	ND	2.04	102	2.00	0.00766	
Ethylbenzene*	<0.050	0.050	06/26/2019	ND	1.93	96.7	2.00	1.92	
Total Xylenes*	<0.150	0.150	06/26/2019	ND	5.86	97.6	6.00	1.91	
Total BTEX	<0.300	0.300	06/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13400	16.0	06/26/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2019	ND	211	106	200	0.273	
DRO >C10-C28*	<10.0	10.0	06/25/2019	ND	201	100	200	1.36	
EXT DRO >C28-C36	<10.0	10.0	06/25/2019	ND					

Surrogate: 1-Chlorooctane 126 % 41-142

Surrogate: 1-Chlorooctadecane 132 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink, appearing to read "Caley D. Keene".

Caley D. Keene, Lab Director/Quality Manager

7 of 2 page

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Comp: (505) 393-2326 ~~Yates Petroleum Corporation~~ EOG Resources Inc.

Project Name:

Project #: 2RP-5149

Company Address: 106 South 4th Street

Project Loc:

City/State/Zip: Artesia, NM 88210

PO #:

Telephone No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

e-mail:

(lab use only)

ORDER #: H902171

Analyze For:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT		
1	#2-1-20'			6-25-19	11:06		1	X									X		X												
2	#2-1-25'			"	11:15		1	X									X		X												
3	#2-1-30'			"	11:26		1	X									X		X												
4	#2-1-35'			"	11:38		1	X									X		X												

Special Instructions:

ALL results in mg/kg. Thank you.

Extend TPH needed

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)

Custody seals on container(s)

Custody seals on cooler(s)

Sample Hand Delivered

by Sampler/Client Rep.?

by Courier?

UPS

DHL

FedEx

Lone Star

Temperature Upon Receipt: 8.4°C #47



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

June 26, 2019

CHASE SETTLE

EOG Y RESOURCES, INC

105 SOUTH 4TH STREET

ARTESIA, NM 88210

RE: JACKSON B #57

Enclosed are the results of analyses for samples received by the laboratory on 06/25/19 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2019
Reported: 06/26/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/25/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: #1-1 - 20' (H902170-01)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	98.5	2.00	06/26/2019	ND	2.00	99.9	2.00	0.240	
Toluene*	312	2.00	06/26/2019	ND	2.04	102	2.00	0.00766	
Ethylbenzene*	181	2.00	06/26/2019	ND	1.93	96.7	2.00	1.92	
Total Xylenes*	181	6.00	06/26/2019	ND	5.86	97.6	6.00	1.91	
Total BTEX	773	12.0	06/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9060	16.0	06/26/2019	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	3630	50.0	06/25/2019	ND	211	106	200	0.273		
DRO >C10-C28*	8640	50.0	06/25/2019	ND	201	100	200	1.36		
EXT DRO >C28-C36	1400	50.0	06/25/2019	ND						

Surrogate: 1-Chlorooctane 266 % 41-142

Surrogate: 1-Chlorooctadecane 361 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2019
Reported: 06/26/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/25/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: #1-1 - 25' (H902170-02)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	38.1	1.00	06/26/2019	ND	2.00	99.9	2.00	0.240	
Toluene*	131	1.00	06/26/2019	ND	2.04	102	2.00	0.00766	
Ethylbenzene*	83.1	1.00	06/26/2019	ND	1.93	96.7	2.00	1.92	
Total Xylenes*	89.8	3.00	06/26/2019	ND	5.86	97.6	6.00	1.91	
Total BTEX	342	6.00	06/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6930	16.0	06/26/2019	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1690	50.0	06/25/2019	ND	211	106	200	0.273	
DRO >C10-C28*	6570	50.0	06/25/2019	ND	201	100	200	1.36	
EXT DRO >C28-C36	1180	50.0	06/25/2019	ND					

Surrogate: 1-Chlorooctane 225 % 41-142

Surrogate: 1-Chlorooctadecane 311 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2019
Reported: 06/26/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/25/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: #1-1 - 35' (H902170-03)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	28.3	1.00	06/26/2019	ND	2.00	99.9	2.00	0.240	
Toluene*	113	1.00	06/26/2019	ND	2.04	102	2.00	0.00766	
Ethylbenzene*	79.0	1.00	06/26/2019	ND	1.93	96.7	2.00	1.92	
Total Xylenes*	87.8	3.00	06/26/2019	ND	5.86	97.6	6.00	1.91	
Total BTEX	308	6.00	06/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6660	16.0	06/26/2019	ND	416	104	400	3.92		
TPH 8015M										
		mg/kg		Analyzed By: MS						S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1780	50.0	06/25/2019	ND	211	106	200	0.273	
DRO >C10-C28*	6490	50.0	06/25/2019	ND	201	100	200	1.36	
EXT DRO >C28-C36	1120	50.0	06/25/2019	ND					

Surrogate: 1-Chlorooctane 219 % 41-142

Surrogate: 1-Chlorooctadecane 305 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 06/25/2019
Reported: 06/26/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 06/25/2019
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: #1-1 - 40' (H902170-04)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	11.1	1.00	06/26/2019	ND	2.00	99.9	2.00	0.240	
Toluene*	54.4	1.00	06/26/2019	ND	2.04	102	2.00	0.00766	
Ethylbenzene*	50.3	1.00	06/26/2019	ND	1.93	96.7	2.00	1.92	
Total Xylenes*	62.2	3.00	06/26/2019	ND	5.86	97.6	6.00	1.91	
Total BTEX	178	6.00	06/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	06/26/2019	ND	416	104	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
				S-06					

Surrogate: 1-Chlorooctane		236 %	41-142							
Surrogate: 1-Chlorooctadecane		333 %	37.6-147							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Chase Settle

Project Name:

Jackson B #57

Company (505) 393-2326 ~~Artesia Petroleum Corporation~~

EOG Resources Inc.

Project #:

2RP-5149

Company Address: *109* South 4th Street

Project Loc:

City/State/Zip: Artesia, NM 88210

PO #:

Telephone No:

575-748-1471

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

Chase Settle

e-mail:

Chase.Settle@EOGResources.com

(lab use only)

ORDER #: *14902170*

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
1	#1-1-20'			6-25-19	12:44		1	X																						
2	#1-1-25'			"	12:56		1	X																						
3	#1-1-35'			"	1:10		1	X																						
4	#1-1-40'			"	1:12		1	X																						

Special Instructions:

ALL results in mg/kg. Thank you.

Extended TPH Needed.

Relinquished by:

Date

Time

Received by:

Date

Time

Received by:

Date

Time

Received by:

Date

Time

Received by:

Date

Time

Received by:

Date

Time

Received by:

Date

Time

Received by:

Date

Time

Received by:

Date

Time

Laboratory Comments:

Sample Containers Intact? ☒

VOCs Free of Headspace? ☒

Labels on container(s) ☒

Custody seals on container(s) ☒

Custody seals on cooler(s) ☒

Sample Hand Delivered ☒

by Sampler/Client Rep. ? ☒

by Courier? ☒

UPS ☒

DHL ☒

FedEx ☒

Lone Star ☒

Temperature Upon Receipt: *8.4°C #997*



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 06, 2019

CHASE SETTLE

EOG Y RESOURCES, INC

105 SOUTH 4TH STREET

ARTESIA, NM 88210

RE: JACKSON B #57

Enclosed are the results of analyses for samples received by the laboratory on 01/30/19 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 01/30/2019
Reported: 02/06/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 01/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: #2 SIDEWALLS (H900341-01)

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	0.085	0.050	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	0.073	0.050	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	<0.150	0.150	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTEX	<0.300	0.300	02/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/02/2019	ND	400	100	400	7.69	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	167	83.5	200	0.387	
DRO >C10-C28*	17.4	10.0	02/01/2019	ND	179	89.3	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 88.5 % 41-142

Surrogate: 1-Chlorooctadecane 89.8 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: Jackson B #57

Project #: 2RP-5149

Project Loc: Jackson B #57

PO #: 205-0750

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: _____ e-mail: _____

Chase.Settle@eogresources.com

(lab use only)

ORDER #: H900341

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 06, 2019

CHASE SETTLE

EOG Y RESOURCES, INC

105 SOUTH 4TH STREET

ARTESIA, NM 88210

RE: JACKSON B #57

Enclosed are the results of analyses for samples received by the laboratory on 01/30/19 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 01/30/2019
Reported: 02/06/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 01/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: #1 SIDEWALLS (H900340-01)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.126	0.050	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	0.243	0.050	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	0.154	0.050	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	0.179	0.150	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTEX	0.701	0.300	02/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/02/2019	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/01/2019	ND	167	83.5	200	0.387	
DRO >C10-C28*	20.1	10.0	02/01/2019	ND	179	89.3	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 94.4 % 41-142

Surrogate: 1-Chlorooctadecane 95.7 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: Jackson B #57

Project #: 2RP-5149

Project Loc: Jackson B #57

PO #: 205-0750

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

e-mail: Chase.Settle@geogresources.com

ORDER #: H900340

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 06, 2019

CHASE SETTLE

EOG Y RESOURCES, INC

105 SOUTH 4TH STREET

ARTESIA, NM 88210

RE: JACKSON B #57

Enclosed are the results of analyses for samples received by the laboratory on 01/30/19 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 01/30/2019
Reported: 02/06/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 01/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: #2 - 7' (H900338-01)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	53.9	2.00	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	228	2.00	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	139	2.00	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	146	6.00	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTEx	567	12.0	02/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	25600	16.0	02/02/2019	ND	400	100	400	7.69		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4460	50.0	02/01/2019	ND	210	105	200	4.32	
DRO >C10-C28*	7860	50.0	02/01/2019	ND	210	105	200	0.805	
EXT DRO >C28-C36	1170	50.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 216 % 41-142

Surrogate: 1-Chlorooctadecane 271 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 01/30/2019
Reported: 02/06/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 01/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: #2 - 9' (H900338-02)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	44.1	2.00	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	185	2.00	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	119	2.00	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	125	6.00	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTEX	473	12.0	02/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24000	16.0	02/02/2019	ND	400	100	400	7.69	
TPH 8015M	mg/kg		Analyzed By: MS						S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3730	50.0	02/01/2019	ND	210	105	200	4.32	
DRO >C10-C28*	7300	50.0	02/01/2019	ND	210	105	200	0.805	
EXT DRO >C28-C36	894	50.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 219 % 41-142

Surrogate: 1-Chlorooctadecane 263 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 01/30/2019
Reported: 02/06/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 01/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: #2 - 11' (H900338-03)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	21.7	2.00	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	109	2.00	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	78.0	2.00	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	83.9	6.00	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTEx	292	12.0	02/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26400	16.0	02/02/2019	ND	400	100	400	7.69	
TPH 8015M		mg/kg		Analyzed By: MS					
				S-06					

Surrogate: 1-Chlorooctane		168 %	41-142							
Surrogate: 1-Chlorooctadecane		193 %	37.6-147							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 01/30/2019
Reported: 02/06/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 01/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: #2 - 13' (H900338-04)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	21.8	1.00	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	101	1.00	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	72.1	1.00	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	77.6	3.00	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTEX	273	6.00	02/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	26800	16.0	02/02/2019	ND	400	100	400	7.69		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1810	50.0	02/01/2019	ND	210	105	200	4.32	
DRO >C10-C28*	4300	50.0	02/01/2019	ND	210	105	200	0.805	
EXT DRO >C28-C36	526	50.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 171 % 41-142

Surrogate: 1-Chlorooctadecane 197 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 01/30/2019
Reported: 02/06/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 01/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: #2 - 15' (H900338-05)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	150	5.00	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	439	5.00	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	243	5.00	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	256	15.0	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTEX	1090	30.0	02/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8800	16.0	02/02/2019	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	8570	50.0	02/01/2019	ND	210	105	200	4.32	QM-07
DRO >C10-C28*	13000	50.0	02/01/2019	ND	210	105	200	0.805	QM-07
EXT DRO >C28-C36	1930	50.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 321 % 41-142

Surrogate: 1-Chlorooctadecane 393 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle


Company Name: EOG Y Resources Inc.

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Fax No:

Sampler Signature: 

e-mail:

Chase.Settle@eogresources.comReport Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name: Jackson B #57

Project #: ZRP-5149

Project Loc: Jackson B #57

PO #: 205-0750

(lab use only)

ORDER #: H900338

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 8015B EXTENDED	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX: 8021B	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	#2-7'	6'	6'	1/29/2019	10:01 AM		1	X								S	X														X
2	#2-9'	9'	9'	1/29/2019	10:04 AM		1	X								S	X														X
3	#2-11'	11'	11'	1/29/2019	10:07 AM		1	X								S	X														X
4	#2-13'	13'	13'	1/29/2019	10:10 AM		1	X								S	X														X
5	#2-15'	15'	15'	1/29/2019	10:16 AM		1	X								S	X														X

TPH EXTENDED NEEDED!

Laboratory Comments:

Sample Containers Intact? ☒ NVOCs Free of Headspace? ☒ NLabels on container(s) ☒ NCustody seals on container(s) ☒ NSample Hand Delivered by Sampler/Client Rep. ? ☒ Nby Courier? ☒ NUPS ☒ NDHL ☒ NFedEx ☒ NLone Star ☒ N

Temperature Upon Receipt: 4.3°C

#91



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 06, 2019

CHASE SETTLE

EOG Y RESOURCES, INC

105 SOUTH 4TH STREET

ARTESIA, NM 88210

RE: JACKSON B #57

Enclosed are the results of analyses for samples received by the laboratory on 01/30/19 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 01/30/2019
Reported: 02/06/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 01/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: #1 - 7' (H900337-01)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	92.7	5.00	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	440	5.00	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	277	5.00	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	293	15.0	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTX	1100	30.0	02/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/02/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	9720	50.0	02/01/2019	ND	210	105	200	4.32		
DRO >C10-C28*	15600	50.0	02/01/2019	ND	210	105	200	0.805		
EXT DRO >C28-C36	2230	50.0	02/01/2019	ND						

Surrogate: 1-Chlorooctane 352 % 41-142

Surrogate: 1-Chlorooctadecane 446 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 01/30/2019
Reported: 02/06/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 01/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: #1 - 9' (H900337-02)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	159	5.00	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	516	5.00	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	292	5.00	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	301	15.0	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTEX	1270	30.0	02/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3280	16.0	02/02/2019	ND	400	100	400	7.69	QM-07	
TPH 8015M	mg/kg		Analyzed By: MS						S-06	

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	7250	50.0	02/01/2019	ND	210	105	200	4.32	
DRO >C10-C28*	11900	50.0	02/01/2019	ND	210	105	200	0.805	
EXT DRO >C28-C36	1790	50.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 283 % 41-142

Surrogate: 1-Chlorooctadecane 356 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 01/30/2019
Reported: 02/06/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 01/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: #1 - 11' (H900337-03)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	154	5.00	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	424	5.00	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	226	5.00	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	229	15.0	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTEX	1030	30.0	02/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8260	16.0	02/02/2019	ND	400	100	400	7.69		
TPH 8015M		mg/kg		Analyzed By: MS						S-06

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5310	50.0	02/01/2019	ND	210	105	200	4.32	
DRO >C10-C28*	8520	50.0	02/01/2019	ND	210	105	200	0.805	
EXT DRO >C28-C36	1310	50.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 230 % 41-142

Surrogate: 1-Chlorooctadecane 286 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 01/30/2019
Reported: 02/06/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 01/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: #1 - 13' (H900337-04)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	94.4	5.00	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	347	5.00	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	210	5.00	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	216	15.0	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTEX	867	30.0	02/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4720	16.0	02/02/2019	ND	400	100	400	7.69		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4700	50.0	02/01/2019	ND	210	105	200	4.32	
DRO >C10-C28*	8200	50.0	02/01/2019	ND	210	105	200	0.805	
EXT DRO >C28-C36	1200	50.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 180 % 41-142

Surrogate: 1-Chlorooctadecane 272 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
CHASE SETTLE
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 01/30/2019
Reported: 02/06/2019
Project Name: JACKSON B #57
Project Number: 2RP-5149
Project Location: JACKSON B #57

Sampling Date: 01/29/2019
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: #1 - 15' (H900337-05)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	183	5.00	02/04/2019	ND	2.19	110	2.00	1.83	
Toluene*	491	5.00	02/04/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	265	5.00	02/04/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	264	15.0	02/04/2019	ND	5.99	99.8	6.00	0.740	
Total BTEX	1200	30.0	02/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8000	16.0	02/02/2019	ND	400	100	400	7.69		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6990	50.0	02/01/2019	ND	210	105	200	4.32	
DRO >C10-C28*	10900	50.0	02/01/2019	ND	210	105	200	0.805	
EXT DRO >C28-C36	1660	50.0	02/01/2019	ND					

Surrogate: 1-Chlorooctane 289 % 41-142

Surrogate: 1-Chlorooctadecane 347 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Company Name EOG Y Resources Inc

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Sampler Signature:

e-mail:

Chase.Settle@geogresources.com

Fax No:

Report Format: ☒ Standard

☐ TRRP ☐ NPDES

PO #: 205-0750

Project Name: Jackson B #57

Project #: 2RP-5149

Project Loc: Jackson B #57

(lab use only)					
ORDER #:		H900337			
LAB # (lab use only)					
FIELD CODE					
#1-7'	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered
#1-9'	6'	6'	1/29/2019	9:33 AM	Total #. of Containers
#1-11'	9'	9'	1/29/2019	9:36 AM	Ice
#1-13'	11'	11'	1/29/2019	9:40 AM	HNO ₃
#1-15'	13'	13'	1/29/2019	9:43 AM	HCl
	15'	15'	1/29/2019	9:49 AM	H ₂ SO ₄
					NaOH
					Na ₂ S ₂ O ₃
					None
					Other (Specify)
					DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other
					TPH: 8015B EXTENDED
					TPH: TX 1005 TX 1006
					Cations (Ca, Mg, Na, K)
					Anions (Cl, SO ₄ , Alkalinity)
					SAR / ESP / CEC
					Metals: As Ag Ba Cd Cr Pb Hg Se
					Volatiles
					Semivolatiles
					BTEX: 8021B
					RCI
					N.O.R.M.
					Chlorides
					SAR
					RUSH TAT (Pre-Schedule) 24, 48, 72 hrs
					Standard TAT

Special Instructions:		TPH EXTENDED NEEDED!	
Relinquished by:	Date	Time	Received by:
Relinquished by:	1-30-19	11:50	Juanita Chaboya
Relinquished by:	Date	Time	Received by ELOT:

Laboratory Comments:	
Sample Containers Intact?	N
VOCs Free of Headspace?	N
Labels on container(s)?	N
Custody seals on container(s)?	N
Custody seals on cooler(s)?	N
Sample Hand Delivered by Sampler/Client Rep.?	N
UPS DHL FedEx Lone Star	N
Temperature Upon Receipt:	34°C

Jackson B #57
Closure Report
nAB1900435050



October 31, 2023

Appendix C

Bore Logs



STRATIGRAPHIC LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: Jackson B #57

HOLE DESIGNATION: CB-1

PROJECT NUMBER: 12566090

DATE COMPLETED: 19 April 2023

CLIENT: EOG Resources

DRILLING METHOD:

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: D. Sparks

File: \\GHDNET\GHD\USMIDLAND\PROJECTS\56212566090\TECH\INTL\LOG DATABASE\12566090-WA-052023.GPJ Library File: GHD_ENVIRO_V08.GLB Report: OVERBURDEN LOG Date: 18/5/23

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SAMPLE				
			NUMBER	INTERVAL	REC (%)	"N" VALUE	
2	100% very fine sand; light brown.						
4							
6							
8							
10	100% very fine sand; light brown.	10.00	CB-1A (10 ft)				
12							
14							
16	90% very fine sand; rusty brown. 10% clay; rusty brown.	15.00	CB-1A (15 ft)				
18							
20	100% very fine sand; rusty brown.	20.00	CB-1A (20 ft)				
22							
24							
26	100% very fine sand; rusty brown.	25.00	CB-1A (25 ft)				
28							
30	100% very fine sand; rusty brown.	30.00	CB-1A (30 ft)				
32							
34							
36	100% very fine sand; bright rusty brown.	35.00	CB-1A (35 ft)				
38							
40	100% very fine sand; rusty brown.	40.00	CB-1A (40 ft)				
42							
44							
46	100% very fine sand; rusty brown.	45.00	CB-1A (45 ft)				

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

CHEMICAL ANALYSIS ☐



STRATIGRAPHIC LOG (OVERBURDEN)

Page 2 of 2

PROJECT NAME: Jackson B #57

HOLE DESIGNATION: CB-1

PROJECT NUMBER: 12566090

DATE COMPLETED: 19 April 2023

CLIENT: EOG Resources

DRILLING METHOD:

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: D. Sparks

File: \\GHDNET\GHD\USMIDLAND\PROJECTS\12566090\TECH\GINT\LOG DATABASE\12566090-WA-052023.GPJ Library File: GHD_ENVIRO_V08.GLB Report: OVERBURDEN LOG Date: 18/5/23

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SAMPLE				
			NUMBER	INTERVAL	REC (%)	"N" VALUE	
50	90% very fine sand; rusty brown. 10% clay; rusty brown	50.00	CB-1A (50 ft)				
52							
54	90% very fine sand; rusty brown. 10% clay; rusty brown	55.00	CB-1A (55 ft)				
56							
58							
60	50% very fine sand; rusty brown. 50% clay; rusty brown	60.00	CB-1A (60 ft)				
62							
64	50% very fine sand; rusty brown. 50% clay; rusty brown	65.00	CB-1A (65 ft)				
66							
68							
70	80% very fine sand; rusty brown. 20% clay; rusty brown	70.00	CB-1A (70 ft)				
72							
74							
76	END OF BOREHOLE @ 75.00ft BGS	75.00	CB-1A (75 ft)				
78							
80							
82							
84							
86							
88							
90							
92							
94							

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

CHEMICAL ANALYSIS ☐



STRATIGRAPHIC LOG (OVERBURDEN)

Page 1 of 2

PROJECT NAME: Jackson B #57

HOLE DESIGNATION: CB-2

PROJECT NUMBER: 12566090

DATE COMPLETED: 19 April 2023

CLIENT: EOG Resources

DRILLING METHOD:

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: D. Sparks

File: \\GHDNET\GHD\USMIDLAND\PROJECTS\56212566090\TECH\INT\LOG DATABASE\12566090-WA-052023.GPJ Library File: GHD_ENVIRO_V08.GLB Report: OVERBURDEN LOG Date: 18/5/23

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SAMPLE				
			NUMBER	INTERVAL	REC (%)	"N" VALUE	
2	100% very fine sand; rusty brown.						
4							
6							
8							
10	80% very fine sand; rusty brown. 20% clay; rusty brown	10.00	CB-2A (10 ft)				
12							
14	80% very fine sand; rusty brown. 20% clay; rusty brown	15.00	CB-2A (15 ft)				
16							
18							
20	80% very fine sand; rusty brown. 20% clay; rusty brown	20.00	CB-2A (20 ft)				
22							
24							
26	90% very fine sand; rusty brown. 10% clay; rusty brown	25.00	CB-2A (25 ft)				
28							
30	90% very fine sand; rusty brown. 10% clay; rusty brown	30.00	CB-2A (30 ft)				
32							
34							
36	100% very fine sand; rusty brown.	35.00	CB-2A (35 ft)				
38							
40	80% very fine sand; rusty brown. 20% clay; rusty brown	40.00	CB-2A (40 ft)				
42							
44							
46	100% very fine sand; rusty brown.	45.00	CB-2A (45 ft)				

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

CHEMICAL ANALYSIS ☐

STRATIGRAPHIC LOG
(OVERBURDEN)

Page 2 of 2

PROJECT NAME: Jackson B #57

HOLE DESIGNATION: CB-2

PROJECT NUMBER: 12566090

DATE COMPLETED: 19 April 2023

CLIENT: EOG Resources

DRILLING METHOD:

LOCATION: Eddy County, New Mexico

FIELD PERSONNEL: D. Sparks

File: \\GHDNET\GHD\USMIDLAND\PROJECTS\56212566090\TECH\GINT\LOG DATABASE\12566090-WA-052023.GPJ Library File: GHD_ENVIRO_V08.GLB Report: OVERBURDEN LOG Date: 18/5/23

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH BGS	SAMPLE				
			NUMBER	INTERVAL	REC (%)	"N" VALUE	
50	END OF BOREHOLE @ 50.00ft BGS	50.00	CB-2A (50 ft)				
52							
54							
56							
58							
60							
62							
64							
66							
68							
70							
72							
74							
76							
78							
80							
82							
84							
86							
88							
90							
92							
94							

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

CHEMICAL ANALYSIS





BORE LOG

PROJECT NAME: Jackson B #57
 LOCATION: 32.861345, -103.926872
 IDENTIFICATION: 1-1C

DATE: 10/19/2019
 DRILL METHOD: Air Rotary
 PERSONNEL: C. Settle

DEPTH FEET BGS	SOIL CHARACTERISTICS	SAMPLE BGS	SAMPLE ID	MOISTURE
0	Fine sand, light brown 0-15', High odor			None
5				
10		10	1-1C-10	
15		15	1-1C-15	
20	Fine sand, small amount of clay, reddish brown 15-30', High odor	20	1-1C-20	
25		25	1-1C-25	
30		30	1-1C-30	
35	Fine sand, light brown 35-55, Mid to Low odor	35	1-1C-35	
40		40	1-1C-40	
45		45	1-1C-45	
50		50	1-1C-50	
55		55	1-1C-55	
60	Fine sand, brown 55-75', 60' strong odor, 75' none bit dropped fast about 64' blowing past 65 & 70 points, boring ended at 75 feet	60	1-1C-60	
65				
70				
75		75	1-1C-75	
80				
85				
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				
140				
145				
150				



BORE LOG

PROJECT NAME: Jackson B #57
 LOCATION: 32.861356, -103.926878
 IDENTIFICATION: 1-2C

DATE: 10/19/2019
 DRILL METHOD: Air Rotary
 PERSONNEL: C. Settle

DEPTH FEET BGS	SOIL CHARACTERISTICS	SAMPLE BGS	SAMPLE ID	MOISTURE
0	Fine sand, light brown 0-15', High odor			None
5				
10		10	1-2C-10	
15		15	1-2C-15	
20		20	1-2C-20	
25	Fine sand, clay dispersed in areas, reddish brown 15-60', Mid to High odor	25	1-2C-25	
30		30	1-2C-30	
35		35	1-2C-35	
40		40	1-2C-40	
45		45	1-2C-45	
50		50	1-2C-50	
55		55	1-2C-55	
60		60	1-2C-60	
65		65	1-2C-65	
70		70	1-2C-70	
75		75	1-2C-75	
80				
85				
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				
140				
145				
150				



BORE LOG

PROJECT NAME: Jackson B #57
 LOCATION: 32.861299, -103.927152
 IDENTIFICATION: 2-1C

DATE: 10/19/2019
 DRILL METHOD: Air Rotary
 PERSONNEL: C. Settle

DEPTH FEET BGS	SOIL CHARACTERISTICS	SAMPLE BGS	SAMPLE ID	MOISTURE
0	Fine Sand, Brown, 0-20', Mid to High odor			None
5				
10		10	2-1C-10	
15		15	2-1C-15	
20		20	2-1C-20	
25	Fine Sand, Reddish brown, 25-50', No odor, boring ended at 50'	25	2-1C-25	
30		30	2-1C-30	
35		35	2-1C-35	
40		40	2-1C-40	
45		45	2-1C-45	
50		50	2-1C-50	
55				
60				
65				
70				
75				
80				
85				
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				
140				
145				
150				



BORE LOG

PROJECT NAME: Jackson B #57
 LOCATION: 32.861309, -103.927154
 IDENTIFICATION: 2-2C

DATE: 10/19/2019
 DRILL METHOD: Air Rotary
 PERSONNEL: C. Settle

DEPTH FEET BGS	SOIL CHARACTERISTICS	SAMPLE BGS	SAMPLE ID	MOISTURE
0	Fine Sand, Brown, 0-20', Mid to High odor, will not meet closure criteria, boring ended at 20'			None
5				
10		10	2-2C-10	
15		15	2-2C-15	
20		20	2-2C-20	
25				
30				
35				
40				
45				
50				
55				
60				
65				
70				
75				
80				
85				
90				
95				
100				
105				
110				
115				
120				
125				
130				
135				
140				
145				
150				

Jackson B #57
Closure Report
nAB1900435050



October 31, 2023

Appendix D

Site Photographs



Area 1- east side of road



Area 2- west side of road

Jackson B #57
Closure Report
nAB1900435050



October 31, 2023

Appendix E

Agency Correspondence

From: [Tina Huerta](#)
To: ocd.enviro@emnrd.nm.gov; blm_nm_cfo_spill@blm.gov
Cc: [Artesia S&E Spill Remediation](#); [Artesia Regulatory](#)
Subject: Jackson B 57 (NAB1900435050 / 2RP-5149) Sampling Notification
Date: Friday, September 22, 2023 9:55:01 AM
Attachments: [image001.png](#)

Good morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Jackson B 57
L-1-17S-30E
Eddy County, NM
NAB1900435050 / 2RP-5149

Sampling will begin at 9:45 a.m. on Tuesday, September 26, 2023, and continue through Friday, September 29, 2023.

Thank you,

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



From: [Tina Huerta](#)
To: ocd.enviro@emnrd.nm.gov; blm_nm_cfo_spill@blm.gov
Cc: [Artesia S&E Spill Remediation](#); [Artesia Regulatory](#)
Subject: Jackson B 57 (NAB1900435050 & 2RP-5149) Sampling Notification
Date: Friday, April 14, 2023 9:19:29 AM
Attachments: [image001.png](#)

Good morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Jackson B 57
L-1-17S-30E
Eddy County, NM
NAB1900435050 & 2RP-5149

Sampling will begin at 7:00 a.m. on Wednesday, April 19, 2023, and continue through Thursday, April 20, 2023.

Thank you,

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



From: [Tina Huerta](#)
To: ocd.enviro@emnrd.nm.gov; blm_nm_cfo_spill@blm.gov
Cc: [Artesia S&E Spill Remediation](#); [Artesia Regulatory](#)
Subject: Jackson B #57 (NAB1900435050 / 2RP-5149) Sampling notification
Date: Friday, November 11, 2022 11:13:08 AM
Attachments: [image001.png](#)

Good Morning,

We just received notification due to one call issues the below sampling event has changed to 8:00 a.m. on Tuesday, November 15, 2022.

Sorry for any inconvenience this may cause.

Thank you.

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Monday, November 7, 2022 12:01 PM
To: ocd.enviro@emnrd.nm.gov; blm_nm_cfo_spill@blm.gov
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Jackson B #57 (NAB1900435050 / 2RP-5149) Sampling notification

Good Morning,

We just received notification that it has been determined that this sampling event will be completed Friday, November 11, 2022.

Sorry for any inconvenience this may cause.

Thank you,

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



Amber Griffin

From: Miriam Morales <Miriam_Morales@eogresources.com>
Sent: Thursday, November 3, 2022 8:13 AM
To: ocd.enviro@emnrd.nm.gov; CFO_Spill, BLM_NM <blm_nm_cfo_spill@blm.gov>

Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>

Subject: Jackson B #57 (NAB1900435050 / 2RP-5149) Sampling notification

Good afternoon,

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

Jackson B #57
L-1-17S-30E
Eddy County, NM
NAB1900435050 / 2RP-5149

Sampling will begin at 8:00 a.m. on Tuesday, November 8, 2022.

Thank you,

Miriam Morales

From: [Miriam Morales](#)
To: ocd.enviro@emnrd.nm.gov; [CFO Spill, BLM NM](#)
Cc: [Artesia S&E Spill Remediation](#); [Artesia Regulatory](#)
Subject: Jackson B #57 (NAB1900435050 / 2RP-5149) Sampling notification
Date: Thursday, November 3, 2022 8:13:26 AM

Good afternoon,

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

Jackson B #57
L-1-17S-30E
Eddy County, NM
NAB1900435050 / 2RP-5149

Sampling will begin at 8:00 a.m. on Tuesday, November 8, 2022.

Thank you,

Miriam Morales

From: [Chase Settle](#)
To: [Hamlet, Robert, EMNRD](#); ["Venegas, Victoria, EMNRD"](#)
Cc: [Katie Jamison](#); [Bob Asher](#); ["blm_nm_cfo_spill@blm.gov"](#)
Subject: Sampling Notification (2RP-5149)
Date: Tuesday, October 20, 2020 10:33:00 AM
Attachments: [image001.png](#)

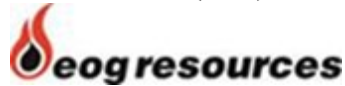
EOG Resources, Inc. respectfully submits notification of confirmation sampling at the below listed location. Sampling will occur at 8:00 a.m. on Monday, October 26, 2020.

Jackson B #57
L-1-17S-30E
Eddy County, NM
2RP-5149

Thank you,

Chase Settle
Rep Safety & Environmental II

EOG Resources
105 S. 4th Street
Artesia, NM 88210
575-748-4171 (Office)
575-703-6537 (Cell)



From: [Katie Jamison](#)
To: [Hamlet, Robert, EMNRD](#)
Subject: RE: Jackson B #57 Remediation Extension Request 2RP-5149
Date: Wednesday, November 6, 2019 3:58:58 PM
Attachments: [image001.png](#)
[image002.png](#)

Thank you, Rob. We appreciate your direction and we will keep you up-to-date as we progress.

Have a great week,

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



From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Wednesday, November 6, 2019 1:25 PM
To: Katie Jamison <Katie_Jamison@eogresources.com>
Cc: blm_nm_cfo_spill@blm.gov; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>
Subject: RE: Jackson B #57 Remediation Extension Request 2RP-5149

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.

RE: 2RP-5149

Katie,

Your request for an extension to November 31st, 2020 is approved.

The improvement in the deeper depths, 55 and 60 feet bgs is good news. Please move forward with the Remediate solution in the confirmation sample boreholes at the shallower depths. The request to reduce the number of confirmation sample points in each of the two areas down to 1 rather than 2 is approved. The limited space to complete the completion sampling without damaging the treatment wells and active flow lines is a viable explanation. Please keep us informed on the progression of the project.

Thank you,

Robert J Hamlet
State of New Mexico
Energy, Minerals, and Natural Resources
Oil Conservation Division
811 S. First St., Artesia NM 88210
(575) 748-1283
Robert.Hamlet@state.nm.us

From: Katie Jamison <Katie_Jamison@eogresources.com>
Sent: Monday, November 4, 2019 1:11 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>
Cc: blm_nm_cfo_spill@blm.gov
Subject: [EXT] Jackson B #57 Remediation Extension Request 2RP-5149

Ms. Venegas/Mr. Hamlet,

Please find attached a Remediation Extension Request for the below listed location. Initial sample data and confirmation sample data have been compiled into a table to show the comparison results prior to and after treatment with Liquid Remediate. We have omitted the actual laboratory reports to save file space, but will provide all actual laboratory reports with the Closure Report that will be submitted once the project is complete.

Jackson B #57
L-1-17S-30E
Eddy County, NM
2RP-5149

If you have any questions, do not hesitate to contact me.

Sincerely,

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

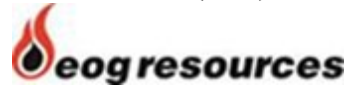


Chase Settle

Rep Safety & Environmental II

EOG Resources

105 S. 4th Street
Artesia, NM 88210
575-748-4171 (Office)
575-703-6537 (Cell)



From: [Chase Settle](#)
To: ["Venegas, Victoria, EMNRD"; "Hamlet, Robert, EMNRD"; Jim Amos](#)
Cc: [Katie Jamison; Bob Asher](#)
Subject: Sampling Notification: Jackson B #57 (2RP-5149)
Date: Thursday, October 10, 2019 1:45:00 PM
Attachments: [image001.png](#)

Ms. Venegas/Mr. Hamlet,

EOG Resources, Inc. respectfully submits notification of confirmation sampling to be conducted at the below location. A core rig is contracted to begin sampling on Tuesday, October 15, 2019, with an anticipated start time of 8:00 a.m. If you have any questions feel free to contact me.

Jackson B #57
L-1-17S-30E
Eddy County, NM
2RP-5149

Thank you,

Chase Settle
Rep Safety & Environmental II

EOG Resources
105 S. 4th Street
Artesia, NM 88210
575-748-4171 (Office)
575-703-6537 (Cell)



From: [Venegas, Victoria, EMNRD](#)
To: [Chase Settle](#); [Hamlet, Robert, EMNRD](#)
Cc: [Jim Amos](#); [Katie Jamison](#); [Bob Asher](#); [Yvette Moore](#)
Subject: RE: Extension Request- Jackson B #57 (2RP-5149)
Date: Thursday, August 8, 2019 11:25:17 AM
Attachments: [image001.png](#)

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.

RE: Extension Request- Jackson B #57 (2RP-5149)

Mr. Settle,
Your request for extension to November 1, 2019 is approved.
Thank you,

Victoria Venegas
EMNRD
OCD-District II
811 S First St. Artesia
NM 88210
Victoria.Venegas@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

From: Chase Settle <Chase_Settle@eogresources.com>
Sent: Thursday, August 8, 2019 9:23 AM
To: Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Cc: Jim Amos <jamos@blm.gov>; Katie Jamison <Katie_Jamison@eogresources.com>; Bob Asher <Bob_Asher@eogresources.com>; Yvette Moore <Yvette_Moore@eogresources.com>
Subject: Extension Request- Jackson B #57 (2RP-5149)

Ms. Venegas/Mr. Hamlet,

EOG Resources, Inc. respectfully requests an extension on the remediation work for the below site. The current extension was to run through August 20, 2019, however bioremediation treatment wasn't completed at the site until July 14, 2019, after vertical delineation and installation of the treatment wells was completed. We would like to get an extension to November 1, 2019, this would allow 90 days for the treatment of soils to occur and a little under 3 weeks to complete soil confirmation testing and complete the report to NMOCD.

Jackson B #57
L-1-17S-30E
Eddy County, NM

2RP-5149

Thank you,

Chase Settle, M.S.

Rep Safety & Environmental II

EOG Resources

105 S. 4th Street

Artesia, NM 88210

575-748-4171 (Office)

575-703-6537 (Cell)



From: [Amos, James](#)
To: [Chase Settle](#)
Subject: Re: [EXTERNAL] Extension Request- Jackson B #57 (2RP-5149)
Date: Thursday, August 8, 2019 11:11:06 AM
Attachments: [image001.png](#)

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.

Chase, The BLM is okay with the extension. Keep us in the loop. Thanks

On Thu, Aug 8, 2019 at 9:23 AM Chase Settle <Chase_Settle@eogresources.com> wrote:

Ms. Venegas/Mr. Hamlet,

EOG Resources, Inc. respectfully requests an extension on the remediation work for the below site. The current extension was to run through August 20, 2019, however bioremediation treatment wasn't completed at the site until July 14, 2019, after vertical delineation and installation of the treatment wells was completed. We would like to get an extension to November 1, 2019, this would allow 90 days for the treatment of soils to occur and a little under 3 weeks to complete soil confirmation testing and complete the report to NMOCD.

Jackson B #57

L-1-17S-30E

Eddy County, NM

2RP-5149

Thank you,

Chase Settle, M.S.

Rep Safety & Environmental II

EOG Resources

105 S. 4th Street

Artesia, NM 88210

575-748-4171 (Office)

575-703-6537 (Cell)



--

Confidentiality Warning: This message along with any attachments are intended only for use of the individual or entity to which it is addressed and may contain information that is privileged or confidential and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient or the employee or agent responsible for delivering this message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify the sender immediately.

James A. Amos
Bureau of Land Management
Carlsbad Field Office
Supervisory Petroleum Engineering Tech
620 East Greene Street
Carlsbad, NM. 88220
Office: (575) 234-5909
Fax: (575) 234-5927
Cell: (575) 361-2648
E-mail: jamos@blm.gov

From: [Katie Jamison](#)
To: [Chase Settle](#); [Bob Asher](#); [Yvette Moore](#)
Subject: FW: Extension Approval - EOG Resources-Artesia - Jackson B #57 (2RP-5149)
Date: Tuesday, May 14, 2019 10:39:24 AM
Attachments: [image001.png](#)

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Tuesday, May 14, 2019 10:38 AM
To: Katie Jamison <Katie_Jamison@eogresources.com>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>
Subject: Extension Approval - EOG Resources-Artesia - Jackson B #57 (2RP-5149)

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.

RE: 2RP-5149

Katie,

Your request for an extension to August 20th, 2019 is approved.

Thank you,

Robert J Hamlet
State of New Mexico
Energy, Minerals, and Natural Resources
Oil Conservation Division
811 S. First St., Artesia NM 88210
(575) 840-5963
Robert.Hamlet@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

From: Katie Jamison <Katie_Jamison@eogresources.com>
Sent: Tuesday, May 14, 2019 10:32 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Venegas, Victoria, EMNRD

<Victoria.Venegas@state.nm.us>

Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Subject: [EXT] Extension Request: EOG Resources-Artesia, Jackson B #57 Remediation Plan (2RP-5149)

Hi Rob,

We just received BLM approval to move forward with the Jackson B #57 Remediation Plan (2RP-5149), which NMOCD approved on March 1, 2019. Since it took over 60 days to get approval from BLM, we would like to request an extension for the completion of the remediation plan. We would like to request 120 days from Monday, May 20, 2019, so that we can get the core rig back on the schedule and finish getting all the equipment needed to complete the downhole remediation ordered.

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



From: [Chase Settle](#)
To: ["Hamlet, Robert, EMNRD"](#)
Cc: [Bratcher, Mike, EMNRD](#); [Venegas, Victoria, EMNRD](#); [Katie Jamison](#)
Subject: Jackson B #57_2RP-5149 Update
Date: Wednesday, April 3, 2019 2:27:00 PM
Attachments: [image001.png](#)

Rob,

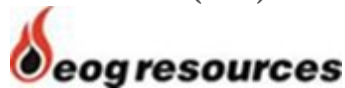
I wanted to provide a brief update to the Jackson B #57 project. We currently have not begun this work. We have been unable to get Bureau of Land Management (BLM) clearance for the approved work plan although we have submitted it and sent multiple emails requesting their guidance. Once we get approval from BLM to move forward with the work plan I will send you notification.

Thank you,

Chase Settle, M.S.
Rep Safety & Environmental II

EOG Resources

105 S. 4th Street
Artesia, NM 88210
575-748-4171 (Office)
575-703-6537 (Cell)



From: [Hamlet, Robert, EMNRD](#)
To: [Katie Jamison](#)
Cc: [yjimenez@blm.gov](#); [Chase Settle](#); [Weaver, Crystal](#); [Bratcher, Mike, EMNRD](#); [Venegas, Victoria, EMNRD](#)
Subject: Remediation Plan: Approval, EOG Resources-Artesia, Jackson B #57 (2RP-5149) 12-1-2018
Date: Friday, March 1, 2019 3:49:29 PM
Attachments: [image001.png](#)
[Jackson B #57 2RP-5149 Work Plan \(Approval\).pdf](#)

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.

Katie and Chase,

We have received your work plan for [2RP-5149](#) Jackson B #57, thank you. This work plan is approved.

Please let me know if you have any further questions.

Regards,

Robert J Hamlet
State of New Mexico
Energy, Minerals, and Natural Resources
Oil Conservation Division
811 S. First St., Artesia NM 88210
(575) 840-5963
Robert.Hamlet@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

From: Katie Jamison <Katie_Jamison@eogresources.com>
Sent: Wednesday, February 27, 2019 3:47 PM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>
Cc: yjimenez@blm.gov; Chase Settle <Chase_Settle@eogresources.com>
Subject: [EXT] Remediation Plan: 2RP-5149, EOG Resources-Artesia, Jackson B #57

Good Afternoon Rob and Victoria,

EOG Resources – Artesia respectfully submits the attached remediation plan for the following site:

2RP-5149

Jackson B #57
L-1-17S-30E
Eddy County, NM

If you have any questions or concerns, please feel free to contact me.

Sincerely,

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



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 281977

CONDITIONS

Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID: 7377
	Action Number: 281977
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	None	3/22/2024