CARMONA RESOURCES

SITE INFORMATION

Closure Report
Black River 15 10 State Com X #004H
Eddy County, New Mexico
Incident ID: NAPP2335628341
Unit P Sec 19 T19S R32E
32.210418°, -104.171767°

Produced Water Release
Point of Release: Production Tank
Release Date: 12.21.2023
Volume Released: 10 Barrels of Produced Water
Volume Recovered: 10 Barrels of Produced Water

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Prepared for:
Marathon Oil Corporation
990 Town and Country Blvd,
Houston, Texas 77024

Prepared by:
Carmona Resources, LLC
310 West Wall Street
Suite 500
Midland, Texas 79701

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March 27, 2024

New Mexico Oil Conservation Division
1220 South St, Francis Drive
Santa Fe, NM 87505

Re: Closure Report
Black River 15 10 State Com X #004H
Marathon Oil Corporation
Incident ID: NAPP2335628341
Site Location: S15, T24S, R27E, Unit P
(Lat 32.210418°, Long -104.171767°)
Eddy County, New Mexico

To whom it may concern:

On behalf of Marathon Oil Corporation, Carmona Resources, LLC has prepared this letter to document site activities for the Black River 15 10 State Com X #004H. The site is located at 32.210418°, -104.171767° within Unit P, S15, T24S, R27E, in Eddy County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on December 21, 2023, caused by corrosion on a production tank. The incident released ten (10) barrels of produced water, with ten (10) barrels recovered. Refer to Figure 3. The initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, no known water sources are within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.67 miles southwest of the site in S22, T24S, R27E, and was drilled in 1971. The well has a reported depth to groundwater of 70’ below ground surface (ft bgs). A copy of the associated Summary report is attached in Appendix D.

3.0 NMAC Regulatory Criteria

Per the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing the site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 100 mg/kg (GRO + DRO + MRO).
- Chloride: 600 mg/kg.

4.0 Liner Inspection/Site Assessment Activities

Liner Inspection

On December 29, 2023, Carmona Resources, LLC conducted liner inspection activities to assess the liner’s integrity within the facility. Before performing the liner inspection, the NMOCD division office was notified via email on December 27, 2023, per Subsection D of 19.15.29.12 NMAC. See Appendix C.

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Carmona Resources, LLC personnel inspected the liner visually and found it intact with no integrity issues. Refer to the Photolog.

Initial Assessment

On December 28, 2023, Carmona Resources, LLC was onsite to perform an initial assessment to evaluate soil impacts stemming from the release. A total of three (3) sample points (S-1 through S-3) and twenty-six (26) horizontal samples (H-1 through H-26) were advanced to depths ranging from the surface to 0.5' bgs within and surrounding the release to assess the vertical and horizontal extent. See Figures 3A & 3B for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. See Table 1 for the analytical results.

Vertical Delineation

Vertical delineation was achieved for the areas of S-1, S-2, and S-3. The areas of (BH-1 through BH-10) were not vertically delineated due to a dense, cemented geological formation ranging from surface to 0.5' bgs. Refer to Table 1.

Horizontal Delineation

All horizontal locations were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. Refer to Table 1.

Drilling Activities

On January 22, 2024, Carmona Resources, LLC returned to the site to vertically delineate the remaining portions of the pad with a dense, cemented geological formation. Ten (10) environmental bores (BH-1 through BH-10) were advanced to depths ranging from the surface to 3' bgs inside the release area. See Figures 3A & 3B for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Laboratories in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E. See Table 1 for the analytical results.

Vertical Delineation

Vertical delineation was achieved for the areas of (BH-1 through BH-10). The areas of BH-1, BH-2, BH-5, BH-6, BH-9, and BH-10 were below the regulatory limits for benzene, total BTEX, TPH, and chloride concentrations. The areas of BH-3, BH-4, BH-7, and BH-8 showed elevated levels of chlorides ranging from 620 mg/kg to 3,080 mg/kg from surface to 1.0' bgs. Refer to Table 1.

5.0 Remediation Activities

Remediation Activities

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Carmona Resources personnel were on site to guide the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via email on February 28, 2024, and March 12, 2024, per Subsection D of 19.15.29.12 NMAC. See Appendix C. After all hazards were identified, the areas of BH-3, BH-4, BH-7, and BH-8 were excavated to a depth of 2.0' below the surface to remove all the impacted soils. A total of twelve (12) floor confirmation samples were collected (CS-1 through CS-12), and twenty-two (22) sidewall samples (SW-1 through SW-22) were collected every 200 square feet to ensure the proper removal of the contaminated soils. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The excavation depths and confirmation sample locations are shown in Figure 4.

Confirmation samples CS-1, CS-2, CS-6, CS-8, and SW-16 continued to show elevated TPH levels and were excavated an additional 0.25' to remove contaminated soil.

All final confirmation samples were below the regulatory requirements for TPH, BTEX, and chloride. Refer to Table 2.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 160 cubic yards of material were excavated and transported offsite for proper disposal.

6.0 Conclusions

Based on the assessment of the liner inside the facility, and the results and the analytical data, no further actions are required at the site. The final C-141 is attached, and Marathon formally requests the closure of the spill. If you have any questions regarding this report or need additional information, please contact us at 432-813-1992.

Sincerely,
Carmona Resources, LLC

Clinton Merritt
Sr. Project Manager

Ivan Ramos
Project Manager

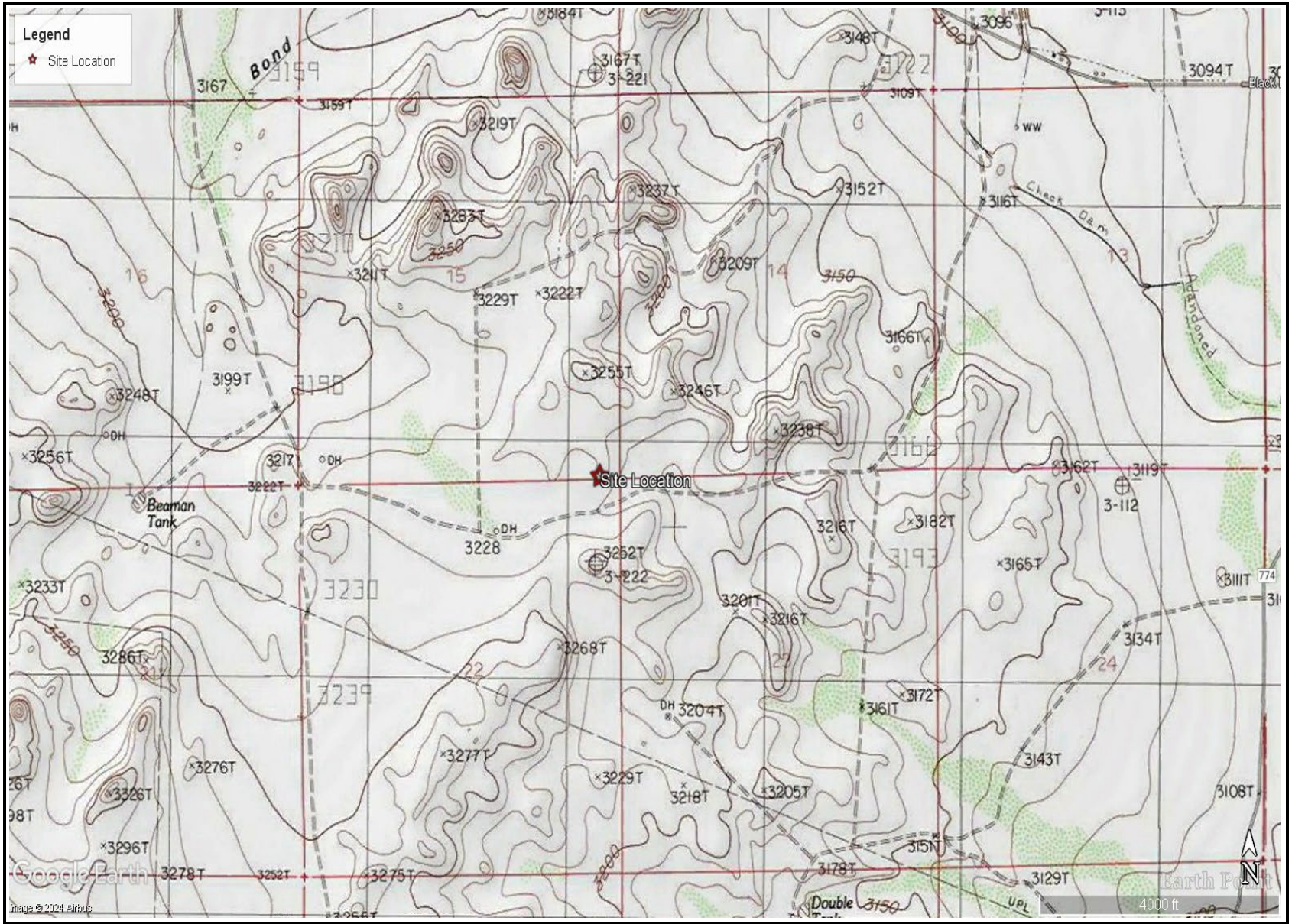
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FIGURES

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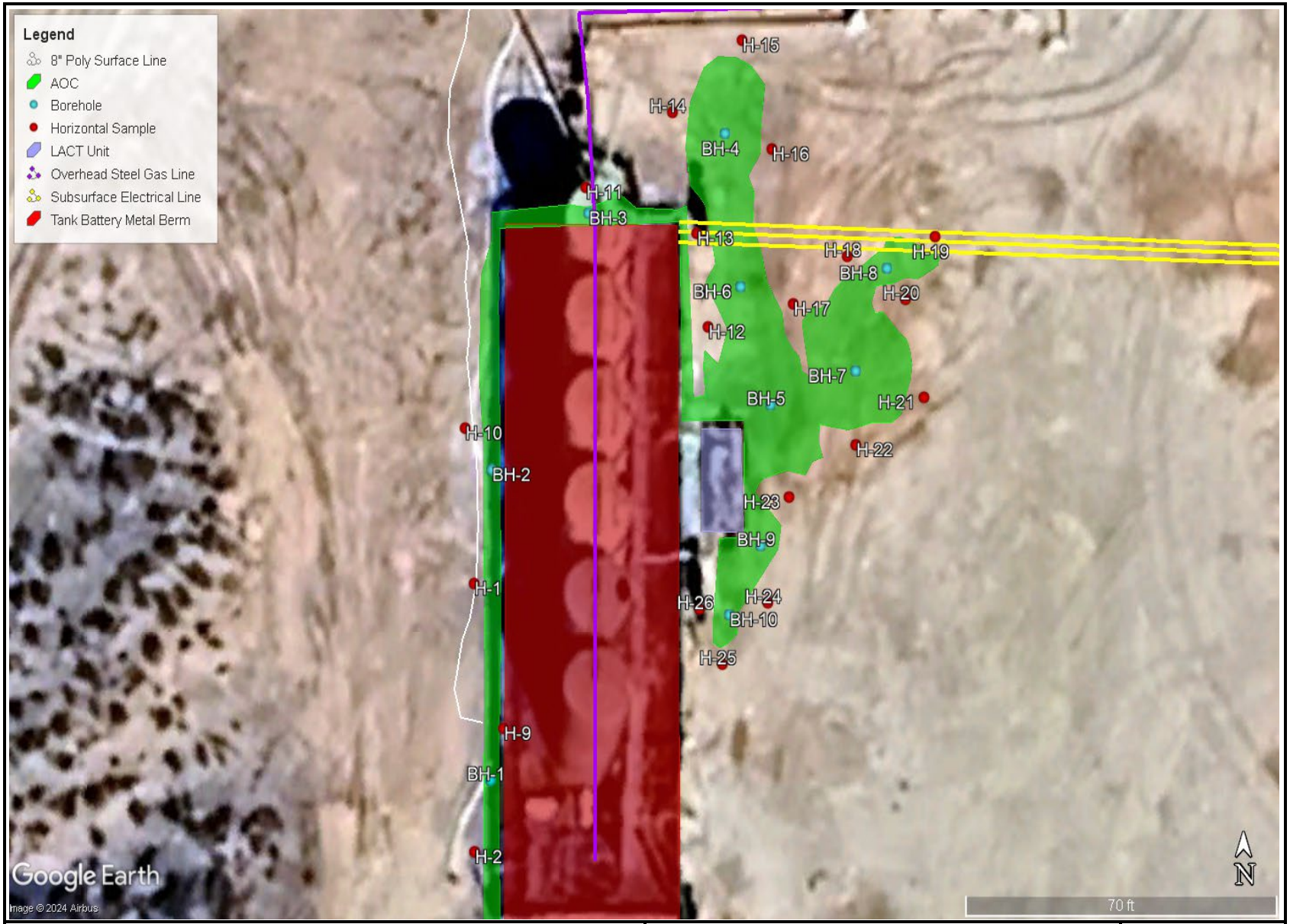
OVERVIEW MAP MARATHON OIL CORPORATION BLACK RIVER 15 10 STATE COM X #004H EDDY COUNTY, NEW MEXICO 32.210418°, -104.171767°	CARMONA RESOURCES	FIGURE 1



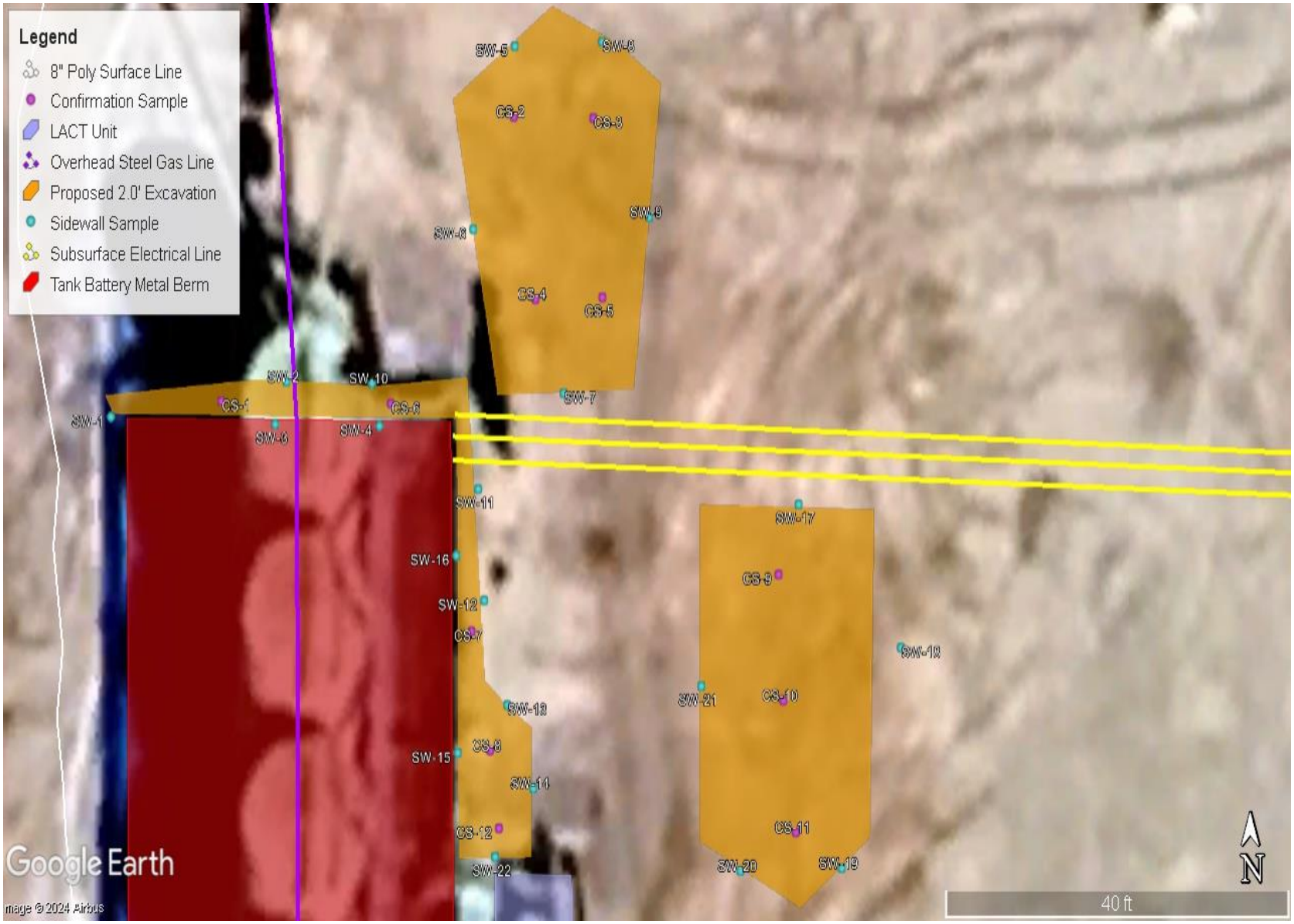
TOPOGRAPHIC MAP MARATHON OIL CORPORATION BLACK RIVER 15 10 STATE COM X #004H EDDY COUNTY, NEW MEXICO 32.210418°, -104.171767°	CARMONA RESOURCES	FIGURE 2



SAMPLE LOCATION MAP MARATHON OIL CORPORATION BLACK RIVER 15 10 STATE COM X #004H EDDY COUNTY, NEW MEXICO 32.210418°, -104.171767°	CARMONA RESOURCES	FIGURE 3A



SAMPLE LOCATION MAP MARATHON OIL CORPORATION BLACK RIVER 15 10 STATE COM X #004H EDDY COUNTY, NEW MEXICO 32.210418°, -104.171767°	CARMONA RESOURCES	FIGURE 3B



EXCAVATION DEPTH MAP MARATHON OIL CORPORATION BLACK RIVER 15 10 STATE COM X #004H EDDY COUNTY, NEW MEXICO 32.210418°, -104.171767°	CARMONA RESOURCES	FIGURE 4

APPENDIX A

CARMONA RESOURCES



Table 1
Marathon Oil
Black River 4H
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	12/29/2023	0-0.5	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	87.0
S-2	12/29/2023	0-0.5	<50.4	<50.4	<50.4	<50.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	273
S-3	12/29/2023	0-0.5	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	125
BH-1	1/12/2024	0-1	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	12.3
	"	2.0	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	31.7
BH-2	1/12/2024	0-1	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	65.0
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	40.2
BH-3	1/12/2024	0-1	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**1,990**
		2.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	85.5
BH-4	1/12/2024	0-1	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	**2,610**
	"	2.0	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	42.2
BH-5	1/12/2024	0-1	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	85.6
	"	2.0	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	24.0
BH-6	1/12/2024	0-1	<50.4	<50.4	<50.4	<50.4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	192
	"	2.0	<50.4	<50.4	<50.4	<50.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	22.9
BH-7	1/12/2024	0-1	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**626**
	"	2.0	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	86.8
BH-8	1/12/2024	0-1	<50.0	74.4	<50.0	74.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**3,080**
	"	2.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	104
	"	3.0	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	83.1
BH-9	1/12/2024	0-1	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	175
	"	2.0	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	144
BH-10	1/12/2024	0-1	<50.4	52.9	<50.4	52.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	154
	"	2.0	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	120
	"	3.0	<49.6	<49.6	<49.6	<49.6	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	96.7
Regulatory Criteria [A]						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed
[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(S) Sample Point
(BH) Bore Hole
Removed

Table 1
Marathon Oil
Black River 4H
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
H-1	12/29/2023	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	28.5
H-2	12/29/2023	0-0.5	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	23.2
H-3	12/29/2023	0-0.5	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	21.3
H-4	12/29/2023	0-0.5	<50.4	<50.4	<50.4	<50.4	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	24.6
H-5	12/29/2023	0-0.5	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<5.05
H-6	12/29/2023	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<5.05
H-7	12/29/2023	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<5.02
H-8	12/29/2023	0-0.5	<50.3	<50.3	<50.3	<50.3	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<5.01
H-9	12/29/2023	0-0.5	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<5.02
H-10	12/29/2023	0-0.5	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<4.99
H-11	12/29/2023	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<4.95
H-12	12/29/2023	0-0.5	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<5.04
H-13	12/29/2023	0-0.5	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<5.02
H-14	12/29/2023	0-0.5	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<4.97
H-15	12/29/2023	0-0.5	<50.5	<50.5	<50.5	<50.5	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<4.99
H-16	12/29/2023	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<5.00
H-17	12/29/2023	0-0.5	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<4.97
H-18	12/29/2023	0-0.5	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<5.04
H-19	12/29/2023	0-0.5	<49.7	<49.7	<49.7	<49.7	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<4.99
H-20	12/29/2023	0-0.5	<50.4	<50.4	<50.4	<50.4	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	5.50
H-21	12/29/2023	0-0.5	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<5.03
H-22	12/29/2023	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<5.01
H-23	12/29/2023	0-0.5	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<5.04
H-24	12/29/2023	0-0.5	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<4.97
H-25	12/29/2023	0-0.5	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<4.97
H-26	12/29/2023	0-0.5	<50.5	<50.5	<50.5	<50.5	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<4.96
Regulatory Criteria [A]						**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**

(-) Not Analyzed
[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(H) Horizontal Sample

Table 2
Marathon Oil
Black River 4H
Eddy County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
CS-1	3/1/2024	2.0	<49.7	54.6	<49.7	54.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	**625**
	3/15/2024	2.25	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	76.2
CS-2	3/1/2024	2.0	<50.5	<50.5	<50.5	<50.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	**715**
	3/15/2024	2.25	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	36.7
CS-3	3/1/2024	2.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	170
CS-4	3/1/2024	2.0	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	79.6
CS-5	3/1/2024	2.0	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	41.6
CS-6	3/1/2024	2.0	<50.3	<50.3	<50.3	<50.3	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	**849**
	3/15/2024	2.25	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	47.0
CS-7	3/1/2024	2.0	<50.1	<50.1	<50.1	<50.1	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	154
CS-8	3/1/2024	2.0	<50.4	**180**	<50.4	**180**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	230
	3/15/2024	2.25	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	77.6
CS-9	3/1/2024	2.0	<50.5	<50.5	<50.5	<50.5	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	187
CS-10	3/1/2024	2.0	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	198
CS-11	3/1/2024	2.0	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	194
CS-12	3/1/2024	2.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	47.0
SW-1	3/1/2024	2.0	<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	520
SW-2	3/1/2024	2.0	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	563
SW-3	3/1/2024	2.0	<50.4	<50.4	<50.4	<50.4	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	391
SW-4	3/1/2024	2.0	<50.5	<50.5	<50.5	<50.5	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	244
SW-5	3/1/2024	2.0	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	477
SW-6	3/1/2024	2.0	<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	71.7
SW-7	3/1/2024	2.0	<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	533
SW-8	3/1/2024	2.0	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	470
SW-9	3/1/2024	2.0	<50.5	<50.5	<50.5	<50.5	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	270
SW-10	3/1/2024	2.0	<49.9	52.0	<49.9	52.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	260
SW-11	3/1/2024	2.0	<49.7	<49.7	<49.7	<49.7	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	318
SW-12	3/1/2024	2.0	<49.6	<49.6	<49.6	<49.6	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	236
SW-13	3/1/2024	2.0	<50.2	<50.2	<50.2	<50.2	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	158
SW-14	3/1/2024	2.0	<50.4	<50.4	<50.4	<50.4	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	159
SW-15	3/1/2024	2.0	<50.5	<50.5	<50.5	<50.5	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	444
SW-16	3/1/2024	2.0	<49.7	**131**	<49.7	**131**	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	125
	3/15/2024	2.0	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	86.6
SW-17	3/1/2024	2.0	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	139
SW-18	3/1/2024	2.0	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	99.0
SW-19	3/1/2024	2.0	<50.4	<50.4	<50.4	<50.4	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	340
SW-20	3/1/2024	2.0	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	468
SW-21	3/1/2024	2.0	<50.1	<50.1	<50.1	<50.1	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	191
SW-22	3/1/2024	2.0	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	175
Regulatory Criteria[A]						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

(-) Not Analyzed
[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(CS) Confirmation Smaple
(SW) Sidewall Sample
Removed

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

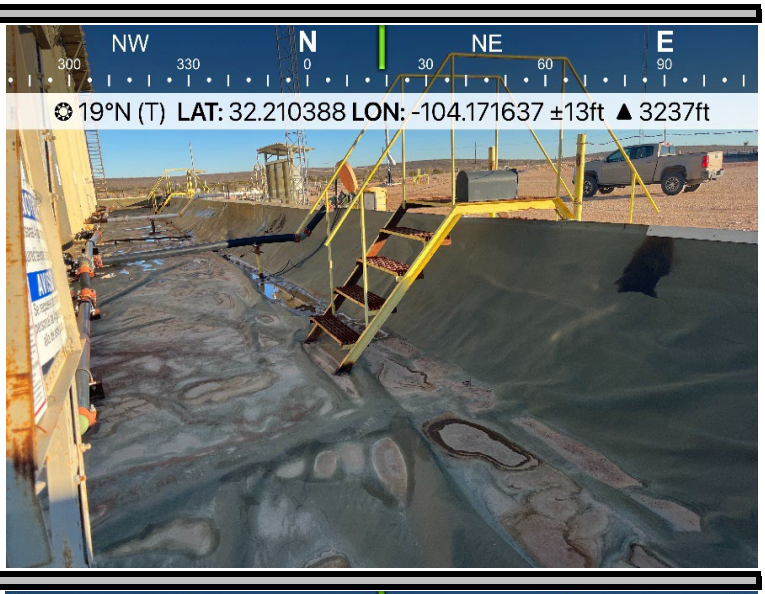
Marathon Oil Corporation

Photograph No. 1

Facility: Black River 15 10 State Com X #004H

County: Eddy County, New Mexico

Description:
View North of lined facility.



Photograph No. 2

Facility: Black River 15 10 State Com X #004H

County: Eddy County, New Mexico

Description:
View West of lined facility.



Photograph No. 3

Facility: Black River 15 10 State Com X #004H

County: Eddy County, New Mexico

Description:
View Southeast of lined facility.



CARMONA RESOURCES

PHOTOGRAPHIC LOG

Marathon Oil Corporation

Photograph No. 4

Facility: Black River 15 10 State Com X #004H

County: Eddy County, New Mexico

Description:
View Southeast of lined facility.

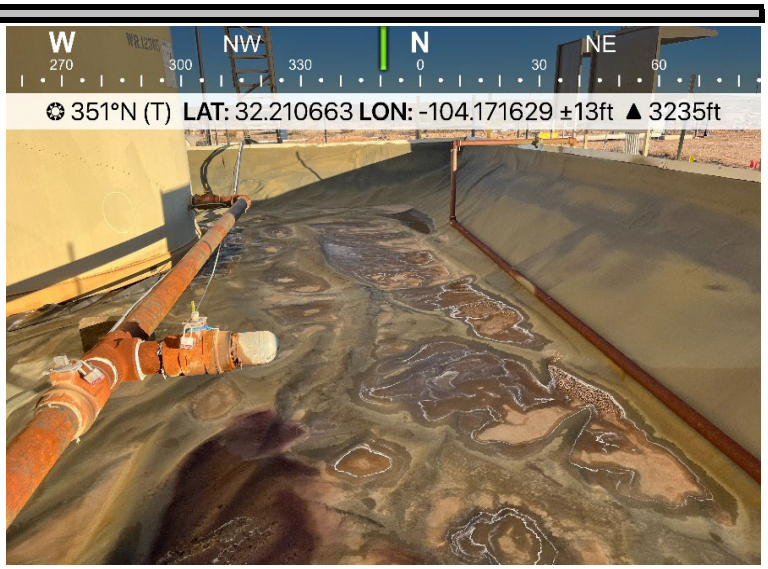


Photograph No. 5

Facility: Black River 15 10 State Com X #004H

County: Eddy County, New Mexico

Description:
View North of lined facility.

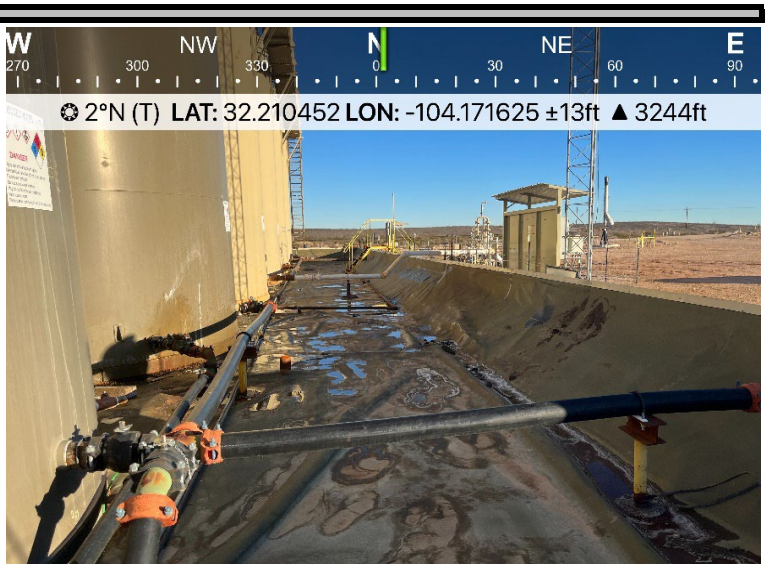


Photograph No. 6

Facility: Black River 15 10 State Com X #004H

County: Eddy County, New Mexico

Description:
View North of lined facility.



CARMONA RESOURCES

PHOTOGRAPHIC LOG

Marathon Oil Corporation

Photograph No. 7

Facility: Black River 15 10 State Com X #004H

County: Eddy County, New Mexico

Description:
View North, area of CS-2 through CS-5.

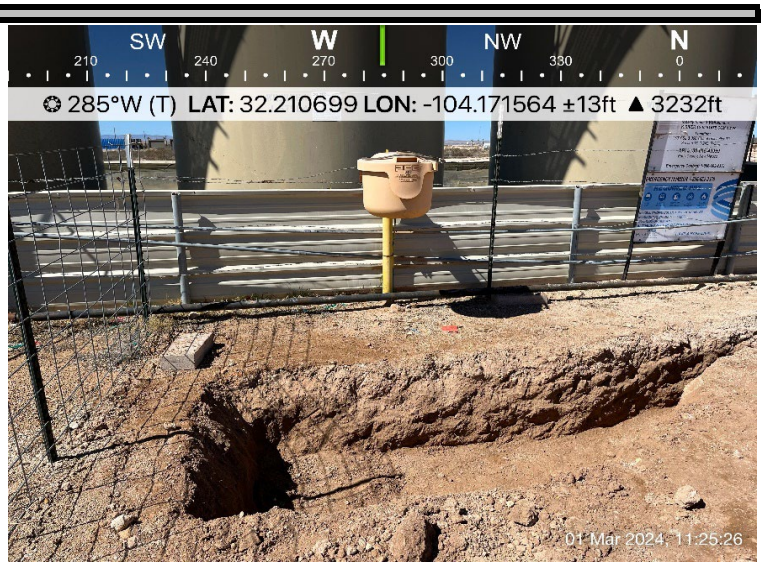


Photograph No. 8

Facility: Black River 15 10 State Com X #004H

County: Eddy County, New Mexico

Description:
View West, area of CS-8 and CS-12.



Photograph No. 9

Facility: Black River 15 10 State Com X #004H

County: Eddy County, New Mexico

Description:
View Northeast, area of CS-9 through CS-11.



CARMONA RESOURCES

PHOTOGRAPHIC LOG

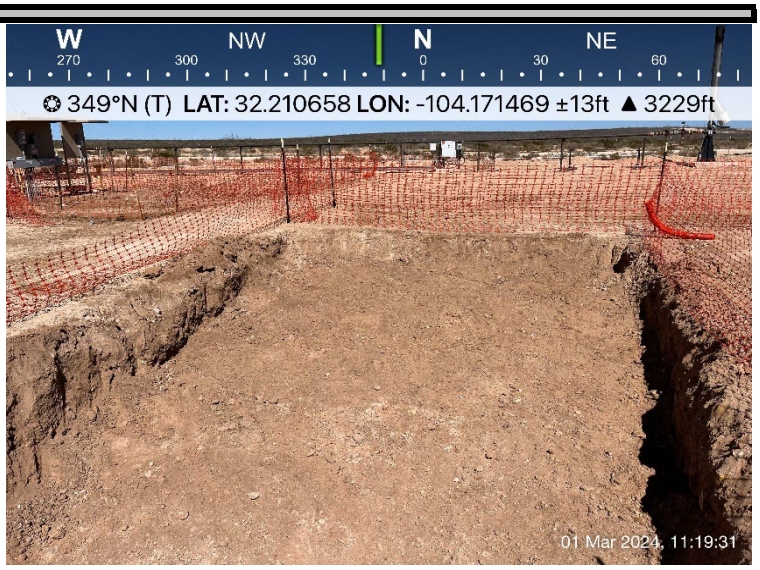
Marathon Oil Corporation

Photograph No. 10

Facility: Black River 15 10 State Com X #004H

County: Eddy County, New Mexico

Description:
View North, area of CS-9 through CS-11.



Photograph No. 11

Facility: Black River 15 10 State Com X #004H

County: Eddy County, New Mexico

Description:
View Southeast, area of CS-1 and CS-6.



Photograph No. 12

Facility: Black River 15 10 State Com X #004H

County: Eddy County, New Mexico

Description:
View Southeast, area of CS-9 through CS-11.



CARMONA RESOURCES

PHOTOGRAPHIC LOG

Marathon Oil Corporation

Photograph No. 13

Facility: Black River 15 10 State Com X #004H

County: Eddy County, New Mexico

Description:
View West, backfilled area.



Photograph No. 14

Facility: Black River 15 10 State Com X #004H

County: Eddy County, New Mexico

Description:
View West, backfilled area.



Photograph No. 15

Facility: Black River 15 10 State Com X #004H

County: Eddy County, New Mexico

Description:
View Southwest, backfilled area.



CARMONA RESOURCES

PHOTOGRAPHIC LOG

Marathon Oil Corporation

Photograph No. 16

Facility: Black River 15 10 State Com X #004H

County: Eddy County, New Mexico

Description:
View West, backfilled area.



Photograph No. 17

Facility: Black River 15 10 State Com X #004H

County: Eddy County, New Mexico

Description:
View East, backfilled area.



CARMONA RESOURCES

APPENDIX C

CARMONA RESOURCES



OCD Permitting

[NOTIFY] Notification Of Liner Inspection (C-141L) Application

Submission Information

Submission ID:	297991	**Districts:**	Artesia
Operator:	[372098] MARATHON OIL PERMIAN LLC	**Counties:**	Eddy
Description:	MARATHON OIL PERMIAN LLC [372098] , BLACK RIVER 15 10 STATE COM X #004H , nAPP2335628341		
Status:	APPROVED		
Status Date:	12/27/2023		
References (2):	30-015-43959, nAPP2335628341		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	**nAPP2335628341**
Incident Name	**NAPP2335628341 BLACK RIVER 15 10 STATE COM X #004H @ 30-015-43959**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Well	**[30-015-43959] BLACK RIVER 15 10 STATE COM X #004H**

Location of Release Source

Site Name	**BLACK RIVER 15 10 STATE COM X #004H**
Date Release Discovered	**12/21/2023**
Surface Owner	**State**

Liner Inspection Event Information

Please answer all the questions in this group.

What is the liner inspection surface area in square feet	5,936
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	12/29/2023
Time liner inspection will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting liner inspection.	
Please provide any information necessary for observers to liner inspection	liner has been pressure washed
Please provide any information necessary for navigation to liner inspection site	1.59 miles southwest of Black River Road, just west of Malaga, Nm

Acknowledgments

This submission type does not have acknowledgments, at this time.

Conditions

Summary: *icastro (12/27/2023),* Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.

Reasons

No reasons found for this submission.

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OCD Permitting

[C-141] Initial C-141 (C-141-V-INITIAL) Application

Submission Information

Submission ID:	297955	**Districts:**	Artesia
Operator:	[372098] MARATHON OIL PERMIAN LLC	**Counties:**	Eddy
Description:	MARATHON OIL PERMIAN LLC [372098] , BLACK RIVER 15 10 STATE COM X #004H , nAPP2335628341		
Status:	APPROVED		
Status Date:	12/27/2023		
References (2):	30-015-43959, nAPP2335628341		

Forms

Attachments: Volume Calculation

Questions

Prerequisites

Incident ID (n#)	**nAPP2335628341**
Incident Name	**NAPP2335628341 BLACK RIVER 15 10 STATE COM X #004H @ 30-015-43959**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Received**
Incident Well	**[30-015-43959] BLACK RIVER 15 10 STATE COM X #004H**

Location of Release Source

Please answer all the questions in this group.

Site Name	BLACK RIVER 15 10 STATE COM X #004H
Date Release Discovered	12/21/2023
Surface Owner	State

Incident Details

Please answer all the questions in this group.

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	*Not answered.*

Other Released Details	*Not answered.*
Are there **additional details** for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

Nature and Volume of Release (continued)

Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Isaac Castro Email: icastro@marathonoil.com Date: 12/27/2023

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	*Not answered.*
What method was used to determine the depth to ground water	*Not answered.*
Did this release impact groundwater or surface water	*Not answered.*

What is the minimum distance, between the closest lateral extents of the release and the following surface areas:

A continuously flowing watercourse or any other significant watercourse	*Not answered.*
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	*Not answered.*
An occupied permanent residence, school, hospital, institution, or church	*Not answered.*
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	*Not answered.*
Any other fresh water well or spring	*Not answered.*
Incorporated municipal boundaries or a defined municipal fresh water well field	*Not answered.*
A wetland	*Not answered.*
A subsurface mine	*Not answered.*
An (non-karst) unstable area	*Not answered.*
Categorize the risk of this well / site being in a karst geology	*Not answered.*
A 100-year floodplain	*Not answered.*
Did the release impact areas not on an exploration, development, production, or storage site	*Not answered.*

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	No

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Comments

No comments found for this submission.

Conditions

Summary: *scwells (12/27/2023),* None

Reasons

No reasons found for this submission.

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Released to Imaging: 5/7/2024 3:27:42 PM

OCD Permitting

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	316361	**Districts:**	Artesia
Operator:	[372098] MARATHON OIL PERMIAN LLC	**Counties:**	Eddy
Description:	MARATHON OIL PERMIAN LLC [372098] , BLACK RIVER 15 10 STATE COM X #004H , nAPP2335628341		
Status:	APPROVED		
Status Date:	02/28/2024		
References (2):	30-015-43959, nAPP2335628341		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	**nAPP2335628341**
Incident Name	**NAPP2335628341 BLACK RIVER 15 10 STATE COM X #004H @ 30-015-43959**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Well	**[30-015-43959] BLACK RIVER 15 10 STATE COM X #004H**

Location of Release Source

Site Name	**BLACK RIVER 15 10 STATE COM X #004H**
Date Release Discovered	**12/21/2023**
Surface Owner	**State**

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	1,858
What is the estimated number of samples that will be gathered	54
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/01/2024
Time sampling will commence	03:30 PM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Clinton Merritt 432-813-9044 Miranda Milwee 432-813-9652
Please provide any information necessary for navigation to sampling site	From the intersection of Co Rd 748 and Black River Village Rd, travel east of Black River Village Rd for 3.43 miles. Turn right (south) onto unmarked lease road and travel 0.97 miles. Turn right (west) onto unmarked lease road and travel 0.34 miles. Turn left (south) onto unmarked lease road and travel 0.52 miles. Job site is at the tank battery Black River 4H GPS: 32.210363, -104.171874

Acknowledgments

This submission type does not have acknowledgments, at this time.

Conditions

Summary: *icastro (2/28/2024),* Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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OCD Permitting

[NOTIFY] Notification Of Sampling (C-141N) Application

Submission Information

Submission ID:	322553	**Districts:**	Artesia
Operator:	[372098] MARATHON OIL PERMIAN LLC	**Counties:**	Eddy
Description:	MARATHON OIL PERMIAN LLC [372098] , BLACK RIVER 15 10 STATE COM X #004H , nAPP2335628341		
Status:	APPROVED		
Status Date:	03/12/2024		
References (2):	30-015-43959, nAPP2335628341		

Forms

This application type does not have attachments.

Questions

Prerequisites

Incident ID (n#)	**nAPP2335628341**
Incident Name	**NAPP2335628341 BLACK RIVER 15 10 STATE COM X #004H @ 30-015-43959**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Well	**[30-015-43959] BLACK RIVER 15 10 STATE COM X #004H**

Location of Release Source

Site Name	**BLACK RIVER 15 10 STATE COM X #004H**
Date Release Discovered	**12/21/2023**
Surface Owner	**State**

Sampling Event General Information

Please answer all the questions in this group.

What is the sampling surface area in square feet	1,858
What is the estimated number of samples that will be gathered	5
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	03/15/2024
Time sampling will commence	08:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Clinton Merritt 432-813-9044
Please provide any information necessary for navigation to sampling site	From the intersection of Co Rd 748 and Black River Village Rd, travel east of Black River Village Rd for 3.43 miles. Turn right (south) onto unmarked lease road and travel 0.97 miles. Turn right (west) onto unmarked lease road and travel 0.34 miles. Turn left (south) onto unmarked lease road and travel 0.52 miles. Job site is at the tank battery Black River 4H GPS: 32.210363, -104.171874

Acknowledgments

This submission type does not have acknowledgments, at this time.

Conditions

Summary: *icastro (3/12/2024),* Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

Reasons

No reasons found for this submission.

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Incident ID	
District RP	
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?	_____ (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ 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)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ 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?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☐ 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	
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: _____ Title: _____

Signature:_____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

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: _____

APPENDIX D

CARMONA RESOURCES



Nearest Water Well

Marathon Oil Permian LLC

Legend

- 0.50 Mile Radius
- 0.67 Miles
- 1.50 Miles
- 1.56 Miles
- 1.71 Miles
- BLACK RIVER 15 10 STATE COM X #004H (12.21.2023)
- NMSEO Water Well

30' - Drilled 1976

25' - Drilled 1981

40' - Drilled 2005

BLACK RIVER 15 10 STATE COM X #004H (12.21.2023)

70' - Drilled 1971

N

1 mi

Received by OCD: 5/6/2024 4:05:37 PM

Medium Karst

Marathon Oil Permian LLC

Legend

- BLACK RIVER 15 10 STATE COM X #004H (12.21.2023)
- High
- Medium

BLACK RIVER 15 10 STATE COM X #004H (12.21.2023)

N

1 mi

Released to Imaging: 5/7/2024 3:27:42 PM

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number		POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 01452		C	ED				22	24S	27E	577435	3563175*	1079	95	70	25
C 04147 POD1		CUB	ED	4	1	3	24	24S	27E	580101	3562969	2320	35		
C 00347		CUB	ED		1	1	13	24S	27E	580010	3565479*	2417	60	30	30
C 03147		C	ED	3	3	3	12	24S	27E	579885	3565715	2468	140		
C 01943		C	ED			1	13	24S	27E	580221	3565275*	2485	30	25	5
C 00342	C	CUB	ED		4	1	13	24S	27E	580432	3565080*	2588	2565		
C 03260 POD1		C	ED	3	3	3	12	24S	27E	579995	3565935	2699	80	56	24
C 03145		C	ED	3	1	4	13	24S	27E	580749	3564579*	2745	103	40	63
C 03260 POD2	O	C	ED	1	3	3	12	24S	27E	580100	3565984	2809	80	56	24
C 01721		C	ED			1	25	24S	27E	580271	3562033*	3004	170		
C 02976		C	ED	4	2	3	12	24S	27E	580519	3566195*	3261	57	27	30
C 00850		C	ED		2	3	09	24S	27E	575595	3566223*	3274	108	35	73
C 00821		C	ED		3	2	09	24S	27E	575996	3566635*	3295	97	50	47
C 03037		C	ED	4	3	4	12	24S	27E	580930	3565795*	3359	116	25	91
C 00364	C	CUB	ED		1	2	09	24S	27E	575997	3567043*	3622	2270		
C 03740 POD1		C	ED	4	4	4	12	24S	27E	581283	3565795	3666	340		
C 01366		CUB	ED			4	08	24S	27E	574590	3566003*	3970	60	35	25

Average Depth to Water: **40 feet**
Minimum Depth: **25 feet**
Maximum Depth: **70 feet**

Record Count: 17

UTMNAD83 Radius Search (in meters):

Easting (X): 578053 **Northing (Y):** 3564060 **Radius:** 4000

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 01452				22	24S	27E	577435	3563175*

Driller License: 30 **Driller Company:** BARRON, EMMETT

Driller Name: BARRON, EMMETT

Drill Start Date:	07/21/1971	**Drill Finish Date:**	07/23/1971	**Plug Date:**	
Log File Date:	08/02/1971	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	7.00	**Depth Well:**	95 feet	**Depth Water:**	70 feet

Water Bearing Stratifications:	Top	Bottom	Description
	60	70	Sandstone/Gravel/Conglomerate

***UTM location was derived from PLSS - see Help**

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New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 00347		1	1	13	24S	27E	580010	3565479*

Driller License:	24	**Driller Company:**	BRININSTOOL, M.D.		
Driller Name:	BRININSTOOL, M.D.				
Drill Start Date:	07/02/1974	**Drill Finish Date:**	06/25/1976	**Plug Date:**	
Log File Date:	07/01/1976	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	100 GPM
Casing Size:	4.25	**Depth Well:**	60 feet	**Depth Water:**	30 feet

Water Bearing Stratifications:	Top	Bottom	Description
	48	54	Other/Unknown

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 01943			1	13	24S	27E	580221	3565275*

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)
(NAD83 UTM in meters)

Driller License:	961	**Driller Company:**	MAVERICK DRILLING		
Driller Name:	DON THOMPS0N				
Drill Start Date:	09/15/1981	**Drill Finish Date:**	09/25/1981	**Plug Date:**	
Log File Date:	06/11/1982	**PCW Rcv Date:**		**Source:**	
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	2 GPM
Casing Size:		**Depth Well:**	30 feet	**Depth Water:**	25 feet

Water Bearing Stratifications:	Top	Bottom	Description
	0	10	Shallow Alluvium/Basin Fill
	10	25	Other/Unknown
	25	30	Sandstone/Gravel/Conglomerate

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 03145	3	1	4	13	24S	27E	580749	3564579*

Driller License: 1348 **Driller Company:** TAYLOR WATER WELL SERVICE

Driller Name:

Drill Start Date:	03/03/2005	**Drill Finish Date:**	03/04/2005	**Plug Date:**	
Log File Date:	03/21/2005	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	60 GPM
Casing Size:	6.63	**Depth Well:**	103 feet	**Depth Water:**	40 feet

Water Bearing Stratifications:	Top	Bottom	Description
	35	55	Sandstone/Gravel/Conglomerate
	96	98	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	55	75
	95	103

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

New Mexico NFHL Data



December 26, 2023

1:4,514

0 0.03 0.07 0.13 mi

0 0.05 0.1 0.2 km

FEMA, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Source: Esri, Maxar, Earthstar Geographics, and the GIS

nmflood.org is made possible through a collaboration with NMDHSEM,

This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.

APPENDIX E

CARMONA RESOURCES

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 1/8/2024 9:19:27 AM

JOB DESCRIPTION

Black River 4H
Eddy County, New Mexico

JOB NUMBER

880-37444-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 5/7/2024 8:27:42 PM

my EOL

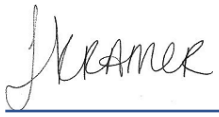
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
1/8/2024 9:19:27 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Carmona Resources
Project/Site: Black River 4H

Laboratory Job ID: 880-37444-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37444-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Black River 4H

Job ID: 880-37444-1

Job ID: 880-37444-1 Eurofins Midland

Job Narrative
880-37444-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 1/2/2024 4:00 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -10.8°C

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: S-1 (0-0.5') (880-37444-1).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-70093 recovered above the upper control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-70093/51).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-70093 recovered below the lower control limit for Toluene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-70093/20).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-1 (0-0.5') (880-37444-1) and (880-37421-A-25-B MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37444-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (0-0.5')

Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Lab Sample ID: 880-37444-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/04/24 04:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/04/24 04:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/04/24 04:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/03/24 09:31	01/04/24 04:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/04/24 04:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/03/24 09:31	01/04/24 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*01/03/24 09:31*	*01/04/24 04:33*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*01/03/24 09:31*	*01/04/24 04:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/04/24 04:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			01/04/24 02:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		01/03/24 08:57	01/04/24 02:21	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		01/03/24 08:57	01/04/24 02:21	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/03/24 08:57	01/04/24 02:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*01/03/24 08:57*	*01/04/24 02:21*	*1*
o-Terphenyl	*123*		*70 - 130*	*01/03/24 08:57*	*01/04/24 02:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**87.0**		5.02		mg/Kg			01/05/24 22:52	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37444-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-37421-A-21-D MSD	Matrix Spike Duplicate	128	104
880-37421-A-21-F MS	Matrix Spike	129	96
880-37444-1	S-1 (0-0.5')	118	73
LCS 880-70110/1-A	Lab Control Sample	128	100
LCSD 880-70110/2-A	Lab Control Sample Dup	121	104
MB 880-70101/5-A	Method Blank	89	86
MB 880-70110/5-A	Method Blank	90	88

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-37421-A-25-B MS	Matrix Spike	134 S1+	102
880-37421-A-25-C MSD	Matrix Spike Duplicate	118	90
880-37444-1	S-1 (0-0.5')	139 S1+	123
LCS 880-70106/2-A	Lab Control Sample	93	87
LCSD 880-70106/3-A	Lab Control Sample Dup	86	82
MB 880-70106/1-A	Method Blank	124	120

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37444-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-70101/5-A
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70101

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/24 08:10	01/03/24 10:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/24 08:10	01/03/24 10:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/24 08:10	01/03/24 10:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/03/24 08:10	01/03/24 10:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/24 08:10	01/03/24 10:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/03/24 08:10	01/03/24 10:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*01/03/24 08:10*	*01/03/24 10:40*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*01/03/24 08:10*	*01/03/24 10:40*	*1*

Lab Sample ID: MB 880-70110/5-A
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70110

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 21:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 21:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 21:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/03/24 09:31	01/03/24 21:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 21:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/03/24 09:31	01/03/24 21:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*01/03/24 09:31*	*01/03/24 21:21*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*01/03/24 09:31*	*01/03/24 21:21*	*1*

Lab Sample ID: LCS 880-70110/1-A
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70110

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08217		mg/Kg		82	70 - 130		
Toluene			0.100	0.07484		mg/Kg		75	70 - 130		
Ethylbenzene			0.100	0.08784		mg/Kg		88	70 - 130		
m-Xylene & p-Xylene			0.200	0.1991		mg/Kg		100	70 - 130		
o-Xylene			0.100	0.09970		mg/Kg		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-70110/2-A
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70110

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08983		mg/Kg		90	70 - 130	9	35

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37444-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-70110/2-A
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70110

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08580		mg/Kg		86	70 - 130	14	35
Ethylbenzene			0.100	0.1043		mg/Kg		104	70 - 130	17	35
m-Xylene & p-Xylene			0.200	0.2213		mg/Kg		111	70 - 130	11	35
o-Xylene			0.100	0.1087		mg/Kg		109	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-37421-A-21-D MSD
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 70110

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.09408		mg/Kg		95	70 - 130	11	35
Toluene	<0.00199	U	0.0990	0.08267		mg/Kg		83	70 - 130	12	35
Ethylbenzene	<0.00199	U	0.0990	0.1015		mg/Kg		103	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2070		mg/Kg		105	70 - 130	11	35
o-Xylene	<0.00199	U	0.0990	0.1073		mg/Kg		108	70 - 130	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-37421-A-21-F MS
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 70110

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.08414		mg/Kg		84	70 - 130
Toluene	<0.00199	U	0.0996	0.07325		mg/Kg		74	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.09158		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1862		mg/Kg		93	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09753		mg/Kg		98	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-70106/1-A
Matrix: Solid
Analysis Batch: 70085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/03/24 08:57	01/03/24 19:24	1

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37444-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-70106/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 70085 — **Prep Batch: 70106**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/03/24 08:57	01/03/24 19:24	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/03/24 08:57	01/03/24 19:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*01/03/24 08:57*	*01/03/24 19:24*	*1*
o-Terphenyl	*120*		*70 - 130*	*01/03/24 08:57*	*01/03/24 19:24*	*1*

Lab Sample ID: LCS 880-70106/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 70085 — **Prep Batch: 70106**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	877.3		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	973.5		mg/Kg		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Lab Sample ID: LCSD 880-70106/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 70085 — **Prep Batch: 70106**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	850.3		mg/Kg		85	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	889.6		mg/Kg		89	70 - 130	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Lab Sample ID: 880-37421-A-25-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 70085 — **Prep Batch: 70106**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	1126		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	1208		mg/Kg		118	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*134*	*S1+*	*70 - 130*
o-Terphenyl	*102*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37444-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-37421-A-25-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 70085 — **Prep Batch: 70106**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	983.8		mg/Kg		96	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	1081		mg/Kg		105	70 - 130	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*118*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-70105/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 70198

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/05/24 20:39	1

Lab Sample ID: LCS 880-70105/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 70198

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.1		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-70105/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 70198

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	253.7		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-37421-A-23-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 70198

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<5.04	U	252	251.7		mg/Kg		99	90 - 110

Lab Sample ID: 880-37421-A-23-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 70198

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<5.04	U	252	251.5		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37444-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 70093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37444-1	S-1 (0-0.5')	Total/NA	Solid	8021B	70110
MB 880-70101/5-A	Method Blank	Total/NA	Solid	8021B	70101
MB 880-70110/5-A	Method Blank	Total/NA	Solid	8021B	70110
LCS 880-70110/1-A	Lab Control Sample	Total/NA	Solid	8021B	70110
LCSD 880-70110/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70110
880-37421-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	70110
880-37421-A-21-F MS	Matrix Spike	Total/NA	Solid	8021B	70110

Prep Batch: 70101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-70101/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 70110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37444-1	S-1 (0-0.5')	Total/NA	Solid	5035	
MB 880-70110/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70110/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70110/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-37421-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
880-37421-A-21-F MS	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 70244

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37444-1	S-1 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 70085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37444-1	S-1 (0-0.5')	Total/NA	Solid	8015B NM	70106
MB 880-70106/1-A	Method Blank	Total/NA	Solid	8015B NM	70106
LCS 880-70106/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70106
LCSD 880-70106/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70106
880-37421-A-25-B MS	Matrix Spike	Total/NA	Solid	8015B NM	70106
880-37421-A-25-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	70106

Prep Batch: 70106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37444-1	S-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-70106/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70106/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70106/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-37421-A-25-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-37421-A-25-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 70166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37444-1	S-1 (0-0.5')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37444-1
SDG: Eddy County, New Mexico

HPLC/IC

Leach Batch: 70105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37444-1	S-1 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-70105/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70105/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70105/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-37421-A-23-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-37421-A-23-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 70198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37444-1	S-1 (0-0.5')	Soluble	Solid	300.0	70105
MB 880-70105/1-A	Method Blank	Soluble	Solid	300.0	70105
LCS 880-70105/2-A	Lab Control Sample	Soluble	Solid	300.0	70105
LCSD 880-70105/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70105
880-37421-A-23-C MS	Matrix Spike	Soluble	Solid	300.0	70105
880-37421-A-23-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	70105

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37444-1
SDG: Eddy County, New Mexico

Client Sample ID: S-1 (0-0.5')

Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Lab Sample ID: 880-37444-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	70110	01/03/24 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70093	01/04/24 04:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70244	01/04/24 04:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			70166	01/04/24 02:21	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70106	01/03/24 08:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70085	01/04/24 02:21	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	70105	01/03/24 08:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70198	01/05/24 22:52	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37444-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37444-1
SDG: Eddy County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37444-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-37444-1	S-1 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00

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880-37444 Chain of Custody

1/8/2024

Page 1 of 1

Project Manager	Clinton Merritt	Bill to: (if different)	Isaac Castro
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address.	990 Town and Country Blvd
City, State ZIP	Midland, TX 79701	City, State ZIP	Houston TX 77024
Phone	Email:	icastro@marathonoil com	

Work Order Comments

Program. UST/PST ☐ PRP ☐ rownfields ☐ RC ☐ perfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	Black River 4H	Turn Around	
Project Number	2224	☑ Routine	☐ Rush
Project Location	Eddy County New Mexico	Due Date	5 Day TAT
Sampler's Name	CCM		
PO #:			

SAMPLE RECEIPT				
Temp Blank	Yes No	Wet Ice	Yes No	
Received Intact:	Yes No	Thermometer ID	IR8	
Cooler Custody Seals	Yes No N/A	Correction Factor	+.20	
Sample Custody Seals	Yes No N/A	Temperature Reading	-1	
Total Containers		Corrected Temperature	-10.9	

ANALYSIS REQUEST

Parameters: BTEX 8021B; TPH 8015M (GRO + DRO + MRO); Chloride 300 0

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0
S-1 (0-0 5')	12/29/2023		X		Grab/	1	X	X	X

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL HC; HNO_3 HN; H_2S0_4. H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Comments

Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	12-24 1600		

Received by OCD: 5/6/2024 4:05:37 PM

Released to Imaging: 5/7/2024 3:27:42 PM

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-37444-1
SDG Number: Eddy County, New Mexico

Login Number: 37444
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 1/8/2024 9:18:42 AM

JOB DESCRIPTION

Black River 4H
Eddy County, New Mexico

JOB NUMBER

880-37443-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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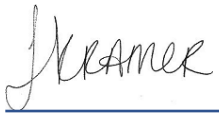
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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Client: Carmona Resources
Project/Site: Black River 4H

Laboratory Job ID: 880-37443-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37443-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Black River 4H

Job ID: 880-37443-1

Job ID: 880-37443-1 Eurofins Midland

Job Narrative
880-37443-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 1/2/2024 4:00 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -10.8°C

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: S-2 (0-0.5') (880-37443-1).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-70093 recovered above the upper control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-70093/51).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-70093 recovered below the lower control limit for Toluene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-70093/20).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-2 (0-0.5') (880-37443-1) and (880-37421-A-25-B MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37443-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (0-0.5')

Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Lab Sample ID: 880-37443-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:31	01/04/24 04:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:31	01/04/24 04:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:31	01/04/24 04:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/03/24 09:31	01/04/24 04:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:31	01/04/24 04:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/03/24 09:31	01/04/24 04:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*01/03/24 09:31*	*01/04/24 04:13*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*01/03/24 09:31*	*01/04/24 04:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/04/24 04:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			01/04/24 02:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		01/03/24 08:57	01/04/24 02:00	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		01/03/24 08:57	01/04/24 02:00	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/03/24 08:57	01/04/24 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*144*	*S1+*	*70 - 130*	*01/03/24 08:57*	*01/04/24 02:00*	*1*
o-Terphenyl	*123*		*70 - 130*	*01/03/24 08:57*	*01/04/24 02:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**273**		5.01		mg/Kg			01/05/24 22:47	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37443-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-37421-A-21-D MSD	Matrix Spike Duplicate	128	104
880-37421-A-21-F MS	Matrix Spike	129	96
880-37443-1	S-2 (0-0.5')	115	76
LCS 880-70110/1-A	Lab Control Sample	128	100
LCSD 880-70110/2-A	Lab Control Sample Dup	121	104
MB 880-70101/5-A	Method Blank	89	86
MB 880-70110/5-A	Method Blank	90	88

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-37421-A-25-B MS	Matrix Spike	134 S1+	102
880-37421-A-25-C MSD	Matrix Spike Duplicate	118	90
880-37443-1	S-2 (0-0.5')	144 S1+	123
LCS 880-70106/2-A	Lab Control Sample	93	87
LCSD 880-70106/3-A	Lab Control Sample Dup	86	82
MB 880-70106/1-A	Method Blank	124	120

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37443-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-70101/5-A
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70101

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/24 08:10	01/03/24 10:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/24 08:10	01/03/24 10:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/24 08:10	01/03/24 10:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/03/24 08:10	01/03/24 10:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/24 08:10	01/03/24 10:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/03/24 08:10	01/03/24 10:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*01/03/24 08:10*	*01/03/24 10:40*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*01/03/24 08:10*	*01/03/24 10:40*	*1*

Lab Sample ID: MB 880-70110/5-A
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70110

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 21:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 21:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 21:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/03/24 09:31	01/03/24 21:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 21:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/03/24 09:31	01/03/24 21:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*01/03/24 09:31*	*01/03/24 21:21*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*01/03/24 09:31*	*01/03/24 21:21*	*1*

Lab Sample ID: LCS 880-70110/1-A
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70110

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08217		mg/Kg		82	70 - 130
Toluene	0.100	0.07484		mg/Kg		75	70 - 130
Ethylbenzene	0.100	0.08784		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1991		mg/Kg		100	70 - 130
o-Xylene	0.100	0.09970		mg/Kg		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-70110/2-A
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70110

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08983		mg/Kg		90	70 - 130	9	35

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37443-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-70110/2-A
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70110

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08580		mg/Kg		86	70 - 130	14	35
Ethylbenzene			0.100	0.1043		mg/Kg		104	70 - 130	17	35
m-Xylene & p-Xylene			0.200	0.2213		mg/Kg		111	70 - 130	11	35
o-Xylene			0.100	0.1087		mg/Kg		109	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-37421-A-21-D MSD
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 70110

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.09408		mg/Kg		95	70 - 130	11	35
Toluene	<0.00199	U	0.0990	0.08267		mg/Kg		83	70 - 130	12	35
Ethylbenzene	<0.00199	U	0.0990	0.1015		mg/Kg		103	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2070		mg/Kg		105	70 - 130	11	35
o-Xylene	<0.00199	U	0.0990	0.1073		mg/Kg		108	70 - 130	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-37421-A-21-F MS
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 70110

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.08414		mg/Kg		84	70 - 130
Toluene	<0.00199	U	0.0996	0.07325		mg/Kg		74	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.09158		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1862		mg/Kg		93	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09753		mg/Kg		98	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-70106/1-A
Matrix: Solid
Analysis Batch: 70085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/03/24 08:57	01/03/24 19:24	1

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QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37443-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-70106/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 70085 — **Prep Batch: 70106**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/03/24 08:57	01/03/24 19:24	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/03/24 08:57	01/03/24 19:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*01/03/24 08:57*	*01/03/24 19:24*	*1*
o-Terphenyl	*120*		*70 - 130*	*01/03/24 08:57*	*01/03/24 19:24*	*1*

Lab Sample ID: LCS 880-70106/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 70085 — **Prep Batch: 70106**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	877.3		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	973.5		mg/Kg		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Lab Sample ID: LCSD 880-70106/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 70085 — **Prep Batch: 70106**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	850.3		mg/Kg		85	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	889.6		mg/Kg		89	70 - 130	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Lab Sample ID: 880-37421-A-25-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 70085 — **Prep Batch: 70106**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	1126		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	1208		mg/Kg		118	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*134*	*S1+*	*70 - 130*
o-Terphenyl	*102*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37443-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-37421-A-25-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 70085 — **Prep Batch: 70106**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	983.8		mg/Kg		96	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	1081		mg/Kg		105	70 - 130	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*118*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-70105/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 70198

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/05/24 20:39	1

Lab Sample ID: LCS 880-70105/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 70198

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.1		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-70105/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 70198

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	253.7		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-37421-A-23-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 70198

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<5.04	U	252	251.7		mg/Kg		99	90 - 110

Lab Sample ID: 880-37421-A-23-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 70198

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<5.04	U	252	251.5		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37443-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 70093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37443-1	S-2 (0-0.5')	Total/NA	Solid	8021B	70110
MB 880-70101/5-A	Method Blank	Total/NA	Solid	8021B	70101
MB 880-70110/5-A	Method Blank	Total/NA	Solid	8021B	70110
LCS 880-70110/1-A	Lab Control Sample	Total/NA	Solid	8021B	70110
LCSD 880-70110/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70110
880-37421-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	70110
880-37421-A-21-F MS	Matrix Spike	Total/NA	Solid	8021B	70110

Prep Batch: 70101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-70101/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 70110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37443-1	S-2 (0-0.5')	Total/NA	Solid	5035	
MB 880-70110/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70110/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70110/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-37421-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
880-37421-A-21-F MS	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 70243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37443-1	S-2 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 70085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37443-1	S-2 (0-0.5')	Total/NA	Solid	8015B NM	70106
MB 880-70106/1-A	Method Blank	Total/NA	Solid	8015B NM	70106
LCS 880-70106/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70106
LCSD 880-70106/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70106
880-37421-A-25-B MS	Matrix Spike	Total/NA	Solid	8015B NM	70106
880-37421-A-25-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	70106

Prep Batch: 70106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37443-1	S-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-70106/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70106/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70106/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-37421-A-25-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-37421-A-25-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 70165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37443-1	S-2 (0-0.5')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37443-1
SDG: Eddy County, New Mexico

HPLC/IC

Leach Batch: 70105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37443-1	S-2 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-70105/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70105/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70105/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-37421-A-23-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-37421-A-23-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 70198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37443-1	S-2 (0-0.5')	Soluble	Solid	300.0	70105
MB 880-70105/1-A	Method Blank	Soluble	Solid	300.0	70105
LCS 880-70105/2-A	Lab Control Sample	Soluble	Solid	300.0	70105
LCSD 880-70105/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70105
880-37421-A-23-C MS	Matrix Spike	Soluble	Solid	300.0	70105
880-37421-A-23-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	70105

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37443-1
SDG: Eddy County, New Mexico

Client Sample ID: S-2 (0-0.5')

Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Lab Sample ID: 880-37443-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	70110	01/03/24 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70093	01/04/24 04:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70243	01/04/24 04:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			70165	01/04/24 02:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	70106	01/03/24 08:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70085	01/04/24 02:00	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	70105	01/03/24 08:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70198	01/05/24 22:47	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37443-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37443-1
SDG: Eddy County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37443-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-37443-1	S-2 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00

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1/8/2024

V

880-37443 Chain of Custody

Project Manager	Clinton Merritt	Bill to. (if different)	Isaac Castro
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address.	990 Town and Country Blvd
City, State ZIP	Midland TX 79701	City, State ZIP	Houston TX 77024
Phone		Email	icastro@marathonoil com

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Black River 4H	Turn Around	
Project Number	2224	☑ Routine	☐ Rush
Project Location	Eddy County New Mexico	Due Date	5 Day TAT
Sampler's Name	CCM		
PO #:			

SAMPLE RECEIPT			
Temp Blank	Yes No	Wet Ice	Yes No
Received Intact:	Yes No	Thermometer ID	IR8
Cooler Custody Seals	Yes No N/A	Correction Factor	+.7
Sample Custody Seals	Yes No N/A	Temperature Reading	-11
Total Containers		Corrected Temperature	-10.9

ANALYSIS REQUEST

Preservative Codes

None NO DI Water H_2O

Cool Cool MeOH Me

HCL HC HNO_3 HN

H_2SO_4 H_2 NaOH Na

H_3PO_4 HP

$NaHSO_4$ NABIS

$Na_2S_2O_3$ $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0
S-2 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X

Sample Comments

Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	1-2-24 1600		

Received by OCD: 5/6/2024 4:05:37 PM

Released to Imaging: 5/7/2024 3:27:42 PM

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-37443-1
SDG Number: Eddy County, New Mexico

Login Number: 37443
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 1/8/2024 9:18:11 AM

JOB DESCRIPTION

Black River 4H
Eddy County, New Mexico

JOB NUMBER

880-37442-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 5/7/2024 8:27:42 PM

my EOL

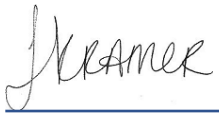
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
1/8/2024 9:18:11 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Carmona Resources
Project/Site: Black River 4H

Laboratory Job ID: 880-37442-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37442-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Black River 4H

Job ID: 880-37442-1

Job ID: 880-37442-1 Eurofins Midland

Job Narrative
880-37442-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 1/2/2024 4:00 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -10.8°C

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: S-3 (0-0.5') (880-37442-1).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-70093 recovered above the upper control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-70093/51).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-70093 recovered below the lower control limit for Toluene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-70093/20).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: S-3 (0-0.5') (880-37442-1) and (880-37421-A-25-B MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37442-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (0-0.5')

Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Lab Sample ID: 880-37442-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:31	01/04/24 03:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:31	01/04/24 03:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:31	01/04/24 03:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/03/24 09:31	01/04/24 03:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:31	01/04/24 03:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/03/24 09:31	01/04/24 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*01/03/24 09:31*	*01/04/24 03:52*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*01/03/24 09:31*	*01/04/24 03:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/04/24 03:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			01/04/24 01:39	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		01/03/24 08:57	01/04/24 01:39	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		01/03/24 08:57	01/04/24 01:39	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/03/24 08:57	01/04/24 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*01/03/24 08:57*	*01/04/24 01:39*	*1*
o-Terphenyl	*120*		*70 - 130*	*01/03/24 08:57*	*01/04/24 01:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**125**		4.98		mg/Kg			01/05/24 22:42	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37442-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-37421-A-21-D MSD	Matrix Spike Duplicate	128	104
880-37421-A-21-F MS	Matrix Spike	129	96
880-37442-1	S-3 (0-0.5')	119	71
LCS 880-70110/1-A	Lab Control Sample	128	100
LCSD 880-70110/2-A	Lab Control Sample Dup	121	104
MB 880-70101/5-A	Method Blank	89	86
MB 880-70110/5-A	Method Blank	90	88

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-37421-A-25-B MS	Matrix Spike	134 S1+	102
880-37421-A-25-C MSD	Matrix Spike Duplicate	118	90
880-37442-1	S-3 (0-0.5')	135 S1+	120
LCS 880-70106/2-A	Lab Control Sample	93	87
LCSD 880-70106/3-A	Lab Control Sample Dup	86	82
MB 880-70106/1-A	Method Blank	124	120

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37442-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-70101/5-A
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70101

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/24 08:10	01/03/24 10:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/24 08:10	01/03/24 10:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/24 08:10	01/03/24 10:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/03/24 08:10	01/03/24 10:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/24 08:10	01/03/24 10:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/03/24 08:10	01/03/24 10:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*01/03/24 08:10*	*01/03/24 10:40*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*01/03/24 08:10*	*01/03/24 10:40*	*1*

Lab Sample ID: MB 880-70110/5-A
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70110

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 21:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 21:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 21:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/03/24 09:31	01/03/24 21:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 21:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/03/24 09:31	01/03/24 21:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*01/03/24 09:31*	*01/03/24 21:21*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*01/03/24 09:31*	*01/03/24 21:21*	*1*

Lab Sample ID: LCS 880-70110/1-A
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70110

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08217		mg/Kg		82	70 - 130
Toluene	0.100	0.07484		mg/Kg		75	70 - 130
Ethylbenzene	0.100	0.08784		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1991		mg/Kg		100	70 - 130
o-Xylene	0.100	0.09970		mg/Kg		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-70110/2-A
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70110

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08983		mg/Kg		90	70 - 130	9	35

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37442-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-70110/2-A
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70110

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08580		mg/Kg		86	70 - 130	14	35
Ethylbenzene			0.100	0.1043		mg/Kg		104	70 - 130	17	35
m-Xylene & p-Xylene			0.200	0.2213		mg/Kg		111	70 - 130	11	35
o-Xylene			0.100	0.1087		mg/Kg		109	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-37421-A-21-D MSD
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 70110

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.09408		mg/Kg		95	70 - 130	11	35
Toluene	<0.00199	U	0.0990	0.08267		mg/Kg		83	70 - 130	12	35
Ethylbenzene	<0.00199	U	0.0990	0.1015		mg/Kg		103	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2070		mg/Kg		105	70 - 130	11	35
o-Xylene	<0.00199	U	0.0990	0.1073		mg/Kg		108	70 - 130	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-37421-A-21-F MS
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 70110

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.08414		mg/Kg		84	70 - 130
Toluene	<0.00199	U	0.0996	0.07325		mg/Kg		74	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.09158		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1862		mg/Kg		93	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09753		mg/Kg		98	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-70106/1-A
Matrix: Solid
Analysis Batch: 70085

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/03/24 08:57	01/03/24 19:24	1

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37442-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-70106/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 70085 — **Prep Batch: 70106**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/03/24 08:57	01/03/24 19:24	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/03/24 08:57	01/03/24 19:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*01/03/24 08:57*	*01/03/24 19:24*	*1*
o-Terphenyl	*120*		*70 - 130*	*01/03/24 08:57*	*01/03/24 19:24*	*1*

Lab Sample ID: LCS 880-70106/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 70085 — **Prep Batch: 70106**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	877.3		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	973.5		mg/Kg		97	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Lab Sample ID: LCSD 880-70106/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 70085 — **Prep Batch: 70106**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	850.3		mg/Kg		85	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	889.6		mg/Kg		89	70 - 130	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*82*		*70 - 130*

Lab Sample ID: 880-37421-A-25-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 70085 — **Prep Batch: 70106**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	1126		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	1208		mg/Kg		118	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*134*	*S1+*	*70 - 130*
o-Terphenyl	*102*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37442-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-37421-A-25-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 70085 — **Prep Batch: 70106**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	983.8		mg/Kg		96	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	1081		mg/Kg		105	70 - 130	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*118*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-70105/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 70198

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/05/24 20:39	1

Lab Sample ID: LCS 880-70105/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 70198

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.1		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-70105/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 70198

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	253.7		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-37421-A-23-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 70198

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<5.04	U	252	251.7		mg/Kg		99	90 - 110

Lab Sample ID: 880-37421-A-23-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 70198

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<5.04	U	252	251.5		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37442-1
SDG: Eddy County, New Mexico

GC VOA

Analysis Batch: 70093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37442-1	S-3 (0-0.5')	Total/NA	Solid	8021B	70110
MB 880-70101/5-A	Method Blank	Total/NA	Solid	8021B	70101
MB 880-70110/5-A	Method Blank	Total/NA	Solid	8021B	70110
LCS 880-70110/1-A	Lab Control Sample	Total/NA	Solid	8021B	70110
LCSD 880-70110/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70110
880-37421-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	70110
880-37421-A-21-F MS	Matrix Spike	Total/NA	Solid	8021B	70110

Prep Batch: 70101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-70101/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 70110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37442-1	S-3 (0-0.5')	Total/NA	Solid	5035	
MB 880-70110/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70110/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70110/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-37421-A-21-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
880-37421-A-21-F MS	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 70242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37442-1	S-3 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 70085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37442-1	S-3 (0-0.5')	Total/NA	Solid	8015B NM	70106
MB 880-70106/1-A	Method Blank	Total/NA	Solid	8015B NM	70106
LCS 880-70106/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70106
LCSD 880-70106/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70106
880-37421-A-25-B MS	Matrix Spike	Total/NA	Solid	8015B NM	70106
880-37421-A-25-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	70106

Prep Batch: 70106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37442-1	S-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-70106/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70106/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70106/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-37421-A-25-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-37421-A-25-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 70164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37442-1	S-3 (0-0.5')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37442-1
SDG: Eddy County, New Mexico

HPLC/IC

Leach Batch: 70105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37442-1	S-3 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-70105/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70105/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70105/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-37421-A-23-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-37421-A-23-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 70198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37442-1	S-3 (0-0.5')	Soluble	Solid	300.0	70105
MB 880-70105/1-A	Method Blank	Soluble	Solid	300.0	70105
LCS 880-70105/2-A	Lab Control Sample	Soluble	Solid	300.0	70105
LCSD 880-70105/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70105
880-37421-A-23-C MS	Matrix Spike	Soluble	Solid	300.0	70105
880-37421-A-23-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	70105

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37442-1
SDG: Eddy County, New Mexico

Client Sample ID: S-3 (0-0.5')

Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Lab Sample ID: 880-37442-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	70110	01/03/24 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70093	01/04/24 03:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70242	01/04/24 03:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			70164	01/04/24 01:39	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70106	01/03/24 08:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70085	01/04/24 01:39	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	70105	01/03/24 08:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70198	01/05/24 22:42	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37442-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37442-1
SDG: Eddy County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37442-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-37442-1	S-3 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00

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Received by OCD: 5/6/2024 4:05:37 PM

Released to Imaging: 5/7/2024 3:27:42 PM

880-37442 Chain of Custody

Page 1 of 1

Project Manager	Clinton Merritt	Bill to (if different)	Isaac Castro
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland TX 79701	City, State ZIP	Houston, TX 77024
Phone	Email	icastro@marathonoil com	

Work Order Comments

Program. UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Black River 4H	Turn Around	
Project Number	2224	☑ Routine	☐ Rush
Project Location	Eddy County, New Mexico	Due Date	5 Day TAT
Sampler's Name	CCM		
PO #:			

SAMPLE RECEIPT			
Temp Blank.	Yes No	Wet Ice	Yes No
Received Intact:	Yes No	Thermometer ID	IR8
Cooler Custody Seals	Yes No N/A	Correction Factor	+.20
Sample Custody Seals	Yes No N/A	Temperature Reading	-11
Total Containers		Corrected Temperature	-10.8

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0
S-3 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X

Parameters

Preservative Codes

None NO DI Water H_2O

Cool Cool MeOH Me

HCL HC HNO_3 HN

H_2SO_4 H_2 NaOH Na

H_3PO_4 HP

$NaHSO_4$ NABIS

$Na_2S_2O_3$ $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Comments

Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	1-2-24 1600		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-37442-1
SDG Number: Eddy County, New Mexico

Login Number: 37442
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 1/8/2024 9:13:50 AM

JOB DESCRIPTION

Black River 4H
Eddy County, New Mexico

JOB NUMBER

880-37421-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 5/7/2024 8:27:42 PM

my EOL

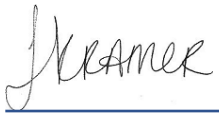
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Client: Carmona Resources
Project/Site: Black River 4H

Laboratory Job ID: 880-37421-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Black River 4H

Job ID: 880-37421-1

Job ID: 880-37421-1 Eurofins Midland

Job Narrative
880-37421-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/2/2024 4:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -10.8°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: H-1 (0-0.5') (880-37421-1), H-2 (0-0.5') (880-37421-2), H-3 (0-0.5') (880-37421-3), H-4 (0-0.5') (880-37421-4), H-5 (0-0.5') (880-37421-5), H-6 (0-0.5') (880-37421-6), H-7 (0-0.5') (880-37421-7), H-8 (0-0.5') (880-37421-8), H-9 (0-0.5') (880-37421-9), H-10 (0-0.5') (880-37421-10), H-11 (0-0.5') (880-37421-11), H-12 (0-0.5') (880-37421-12), H-13 (0-0.5') (880-37421-13), H-14 (0-0.5') (880-37421-14), H-15 (0-0.5') (880-37421-15), H-16 (0-0.5') (880-37421-16), H-17 (0-0.5') (880-37421-17), H-18 (0-0.5') (880-37421-18), H-19 (0-0.5') (880-37421-19), H-20 (0-0.5') (880-37421-20), H-21 (0-0.5') (880-37421-21), H-22 (0-0.5') (880-37421-22), H-23 (0-0.5') (880-37421-23), H-24 (0-0.5') (880-37421-24), H-25 (0-0.5') (880-37421-25) and H-26 (0-0.5') (880-37421-26).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: H-25 (0-0.5') (880-37421-25) and H-26 (0-0.5') (880-37421-26). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-70093 recovered above the upper control limit for Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 880-70093/51).

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-70093 recovered below the lower control limit for Toluene. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-70093/20).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: H-23 (0-0.5') (880-37421-23), (890-5828-A-1-D) and (880-37421-A-1-C MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-70103/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-70029 and analytical batch 880-70090 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-70103 and analytical batch 880-70090 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28).

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-70103 and

Case Narrative

Client: Carmona Resources
Project: Black River 4H

Job ID: 880-37421-1

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analytical batch 880-70090 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: H-26 (0-0.5') (880-37421-26) and (880-37421-A-25-B MS). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-1 (0-0.5')

Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Lab Sample ID: 880-37421-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 02:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 02:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 02:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/03/24 09:29	01/04/24 02:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 02:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/03/24 09:29	01/04/24 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*01/03/24 09:29*	*01/04/24 02:45*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*01/03/24 09:29*	*01/04/24 02:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/04/24 02:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/03/24 21:35	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	49.8		mg/Kg		01/03/24 08:21	01/03/24 21:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U F1 *1	49.8		mg/Kg		01/03/24 08:21	01/03/24 21:35	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/03/24 08:21	01/03/24 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*74*		*70 - 130*	*01/03/24 08:21*	*01/03/24 21:35*	*1*
o-Terphenyl	*75*		*70 - 130*	*01/03/24 08:21*	*01/03/24 21:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**28.5**		4.95		mg/Kg			01/05/24 12:03	1

Client Sample ID: H-2 (0-0.5')

Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Lab Sample ID: 880-37421-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 03:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 03:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 03:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/03/24 09:29	01/04/24 03:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 03:05	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/03/24 09:29	01/04/24 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/03/24 09:29*	*01/04/24 03:05*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*01/03/24 09:29*	*01/04/24 03:05*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-37421-2
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/04/24 03:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			01/03/24 22:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		01/03/24 08:21	01/03/24 22:49	1
Diesel Range Organics (Over C10-C28)	<50.5	U *1	50.5		mg/Kg		01/03/24 08:21	01/03/24 22:49	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/03/24 08:21	01/03/24 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*01/03/24 08:21*	*01/03/24 22:49*	*1*
o-Terphenyl	*80*		*70 - 130*	*01/03/24 08:21*	*01/03/24 22:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**23.2**		5.00		mg/Kg			01/05/24 12:11	1

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-37421-3
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 03:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 03:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 03:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/03/24 09:29	01/04/24 03:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 03:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/03/24 09:29	01/04/24 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*01/03/24 09:29*	*01/04/24 03:26*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*01/03/24 09:29*	*01/04/24 03:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/04/24 03:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			01/03/24 23:12	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		01/03/24 08:21	01/03/24 23:12	1
Diesel Range Organics (Over C10-C28)	<50.2	U *1	50.2		mg/Kg		01/03/24 08:21	01/03/24 23:12	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-37421-3
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		01/03/24 08:21	01/03/24 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*01/03/24 08:21*	*01/03/24 23:12*	*1*
o-Terphenyl	*78*		*70 - 130*	*01/03/24 08:21*	*01/03/24 23:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21.3**		5.05		mg/Kg			01/05/24 15:15	1

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-37421-4
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 03:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 03:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 03:46	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/03/24 09:29	01/04/24 03:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 03:46	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/03/24 09:29	01/04/24 03:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*01/03/24 09:29*	*01/04/24 03:46*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*01/03/24 09:29*	*01/04/24 03:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/04/24 03:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			01/03/24 23:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		01/03/24 08:21	01/03/24 23:32	1
Diesel Range Organics (Over C10-C28)	<50.4	U *1	50.4		mg/Kg		01/03/24 08:21	01/03/24 23:32	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/03/24 08:21	01/03/24 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*01/03/24 08:21*	*01/03/24 23:32*	*1*
o-Terphenyl	*77*		*70 - 130*	*01/03/24 08:21*	*01/03/24 23:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.6**		5.05		mg/Kg			01/05/24 15:30	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-5 (0-0.5')

Lab Sample ID: 880-37421-5
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 04:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 04:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 04:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/03/24 09:29	01/04/24 04:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 04:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/03/24 09:29	01/04/24 04:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*01/03/24 09:29*	*01/04/24 04:06*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*01/03/24 09:29*	*01/04/24 04:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/04/24 04:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/03/24 23:52	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/03/24 08:21	01/03/24 23:52	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		01/03/24 08:21	01/03/24 23:52	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/03/24 08:21	01/03/24 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*01/03/24 08:21*	*01/03/24 23:52*	*1*
o-Terphenyl	*83*		*70 - 130*	*01/03/24 08:21*	*01/03/24 23:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			01/05/24 15:35	1

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-37421-6
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 04:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 04:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 04:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/03/24 09:29	01/04/24 04:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 04:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/03/24 09:29	01/04/24 04:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/03/24 09:29*	*01/04/24 04:27*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*01/03/24 09:29*	*01/04/24 04:27*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-37421-6
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/04/24 04:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/04/24 00:13	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/03/24 08:21	01/04/24 00:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		01/03/24 08:21	01/04/24 00:13	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/03/24 08:21	01/04/24 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*85*		*70 - 130*	*01/03/24 08:21*	*01/04/24 00:13*	*1*
o-Terphenyl	*86*		*70 - 130*	*01/03/24 08:21*	*01/04/24 00:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			01/05/24 15:40	1

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-37421-7
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 04:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 04:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 04:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/03/24 09:29	01/04/24 04:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 04:47	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/03/24 09:29	01/04/24 04:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*01/03/24 09:29*	*01/04/24 04:47*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*01/03/24 09:29*	*01/04/24 04:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/04/24 04:47	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/04/24 00:34	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/03/24 08:21	01/04/24 00:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		01/03/24 08:21	01/04/24 00:34	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-37421-7
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/03/24 08:21	01/04/24 00:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*87*		*70 - 130*	*01/03/24 08:21*	*01/04/24 00:34*	*1*
o-Terphenyl	*87*		*70 - 130*	*01/03/24 08:21*	*01/04/24 00:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U	5.02		mg/Kg			01/05/24 15:45	1

Client Sample ID: H-8 (0-0.5')

Lab Sample ID: 880-37421-8
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/03/24 09:29	01/04/24 05:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/03/24 09:29	01/04/24 05:08	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/03/24 09:29	01/04/24 05:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/03/24 09:29	01/04/24 05:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/03/24 09:29	01/04/24 05:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/03/24 09:29	01/04/24 05:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*01/03/24 09:29*	*01/04/24 05:08*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*01/03/24 09:29*	*01/04/24 05:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/04/24 05:08	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			01/04/24 00:55	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		01/03/24 08:21	01/04/24 00:55	1
Diesel Range Organics (Over C10-C28)	<50.3	U *1	50.3		mg/Kg		01/03/24 08:21	01/04/24 00:55	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		01/03/24 08:21	01/04/24 00:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*01/03/24 08:21*	*01/04/24 00:55*	*1*
o-Terphenyl	*81*		*70 - 130*	*01/03/24 08:21*	*01/04/24 00:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			01/05/24 16:01	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-9 (0-0.5')

Lab Sample ID: 880-37421-9
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 05:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 05:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 05:28	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/03/24 09:29	01/04/24 05:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 05:28	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/03/24 09:29	01/04/24 05:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/03/24 09:29*	*01/04/24 05:28*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*01/03/24 09:29*	*01/04/24 05:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/04/24 05:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			01/04/24 01:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		01/03/24 08:21	01/04/24 01:15	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1		mg/Kg		01/03/24 08:21	01/04/24 01:15	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/03/24 08:21	01/04/24 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*01/03/24 08:21*	*01/04/24 01:15*	*1*
o-Terphenyl	*83*		*70 - 130*	*01/03/24 08:21*	*01/04/24 01:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U	5.02		mg/Kg			01/05/24 16:06	1

Client Sample ID: H-10 (0-0.5')

Lab Sample ID: 880-37421-10
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 05:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 05:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 05:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/03/24 09:29	01/04/24 05:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 05:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/03/24 09:29	01/04/24 05:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*01/03/24 09:29*	*01/04/24 05:49*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*01/03/24 09:29*	*01/04/24 05:49*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-10 (0-0.5')

Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Lab Sample ID: 880-37421-10
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/04/24 05:49	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			01/04/24 01:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/03/24 08:21	01/04/24 01:36	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		01/03/24 08:21	01/04/24 01:36	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/03/24 08:21	01/04/24 01:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*01/03/24 08:21*	*01/04/24 01:36*	*1*
o-Terphenyl	*81*		*70 - 130*	*01/03/24 08:21*	*01/04/24 01:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			01/05/24 16:11	1

Client Sample ID: H-11 (0-0.5')

Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Lab Sample ID: 880-37421-11
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/03/24 09:29	01/04/24 07:39	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/03/24 09:29	01/04/24 07:39	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/03/24 09:29	01/04/24 07:39	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/03/24 09:29	01/04/24 07:39	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/03/24 09:29	01/04/24 07:39	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/03/24 09:29	01/04/24 07:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*01/03/24 09:29*	*01/04/24 07:39*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*01/03/24 09:29*	*01/04/24 07:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/04/24 07:39	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/04/24 02:17	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/03/24 08:21	01/04/24 02:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		01/03/24 08:21	01/04/24 02:17	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-11 (0-0.5')

Lab Sample ID: 880-37421-11
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/03/24 08:21	01/04/24 02:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*01/03/24 08:21*	*01/04/24 02:17*	*1*
o-Terphenyl	*83*		*70 - 130*	*01/03/24 08:21*	*01/04/24 02:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95		mg/Kg			01/05/24 16:16	1

Client Sample ID: H-12 (0-0.5')

Lab Sample ID: 880-37421-12
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 07:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 07:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 07:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/03/24 09:29	01/04/24 07:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 07:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/03/24 09:29	01/04/24 07:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*01/03/24 09:29*	*01/04/24 07:59*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*01/03/24 09:29*	*01/04/24 07:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/04/24 07:59	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/04/24 02:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/03/24 08:21	01/04/24 02:37	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		01/03/24 08:21	01/04/24 02:37	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/03/24 08:21	01/04/24 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*01/03/24 08:21*	*01/04/24 02:37*	*1*
o-Terphenyl	*79*		*70 - 130*	*01/03/24 08:21*	*01/04/24 02:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04		mg/Kg			01/05/24 16:21	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-13 (0-0.5')

Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Lab Sample ID: 880-37421-13
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 08:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 08:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 08:19	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/03/24 09:29	01/04/24 08:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 08:19	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/03/24 09:29	01/04/24 08:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*01/03/24 09:29*	*01/04/24 08:19*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*01/03/24 09:29*	*01/04/24 08:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/04/24 08:19	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/04/24 02:57	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/03/24 08:21	01/04/24 02:57	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		01/03/24 08:21	01/04/24 02:57	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/03/24 08:21	01/04/24 02:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*01/03/24 08:21*	*01/04/24 02:57*	*1*
o-Terphenyl	*84*		*70 - 130*	*01/03/24 08:21*	*01/04/24 02:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U	5.02		mg/Kg			01/05/24 16:26	1

Client Sample ID: H-14 (0-0.5')

Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Lab Sample ID: 880-37421-14
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/03/24 09:29	01/04/24 08:40	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/03/24 09:29	01/04/24 08:40	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/03/24 09:29	01/04/24 08:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/03/24 09:29	01/04/24 08:40	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/03/24 09:29	01/04/24 08:40	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/03/24 09:29	01/04/24 08:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*01/03/24 09:29*	*01/04/24 08:40*	*1*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*	*01/03/24 09:29*	*01/04/24 08:40*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-14 (0-0.5')

Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Lab Sample ID: 880-37421-14
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/04/24 08:40	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			01/04/24 03:18	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		01/03/24 08:21	01/04/24 03:18	1
Diesel Range Organics (Over C10-C28)	<50.1	U *1	50.1		mg/Kg		01/03/24 08:21	01/04/24 03:18	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/03/24 08:21	01/04/24 03:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*01/03/24 08:21*	*01/04/24 03:18*	*1*
o-Terphenyl	*84*		*70 - 130*	*01/03/24 08:21*	*01/04/24 03:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			01/05/24 16:42	1

Client Sample ID: H-15 (0-0.5')

Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Lab Sample ID: 880-37421-15
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/03/24 09:29	01/04/24 09:00	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/03/24 09:29	01/04/24 09:00	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/03/24 09:29	01/04/24 09:00	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/03/24 09:29	01/04/24 09:00	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/03/24 09:29	01/04/24 09:00	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/03/24 09:29	01/04/24 09:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*01/03/24 09:29*	*01/04/24 09:00*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*01/03/24 09:29*	*01/04/24 09:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/04/24 09:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			01/04/24 03:38	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		01/03/24 08:21	01/04/24 03:38	1
Diesel Range Organics (Over C10-C28)	<50.5	U *1	50.5		mg/Kg		01/03/24 08:21	01/04/24 03:38	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-15 (0-0.5')

Lab Sample ID: 880-37421-15
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/03/24 08:21	01/04/24 03:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*01/03/24 08:21*	*01/04/24 03:38*	*1*
o-Terphenyl	*84*		*70 - 130*	*01/03/24 08:21*	*01/04/24 03:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			01/05/24 16:47	1

Client Sample ID: H-16 (0-0.5')

Lab Sample ID: 880-37421-16
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 09:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 09:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 09:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/03/24 09:29	01/04/24 09:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 09:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/03/24 09:29	01/04/24 09:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*01/03/24 09:29*	*01/04/24 09:21*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*01/03/24 09:29*	*01/04/24 09:21*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/04/24 09:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/04/24 03:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/03/24 08:21	01/04/24 03:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		01/03/24 08:21	01/04/24 03:59	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/03/24 08:21	01/04/24 03:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*01/03/24 08:21*	*01/04/24 03:59*	*1*
o-Terphenyl	*83*		*70 - 130*	*01/03/24 08:21*	*01/04/24 03:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/05/24 17:02	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-17 (0-0.5')

Lab Sample ID: 880-37421-17
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 09:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 09:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 09:41	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/03/24 09:29	01/04/24 09:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 09:41	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/03/24 09:29	01/04/24 09:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*01/03/24 09:29*	*01/04/24 09:41*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*01/03/24 09:29*	*01/04/24 09:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/04/24 09:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/04/24 04:19	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/03/24 08:21	01/04/24 04:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		01/03/24 08:21	01/04/24 04:19	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/03/24 08:21	01/04/24 04:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*01/03/24 08:21*	*01/04/24 04:19*	*1*
o-Terphenyl	*86*		*70 - 130*	*01/03/24 08:21*	*01/04/24 04:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			01/05/24 17:08	1

Client Sample ID: H-18 (0-0.5')

Lab Sample ID: 880-37421-18
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 10:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 10:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 10:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/03/24 09:29	01/04/24 10:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 10:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/03/24 09:29	01/04/24 10:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*01/03/24 09:29*	*01/04/24 10:02*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*01/03/24 09:29*	*01/04/24 10:02*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-18 (0-0.5')

Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Lab Sample ID: 880-37421-18
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/04/24 10:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			01/04/24 04:39	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		01/03/24 08:21	01/04/24 04:39	1
Diesel Range Organics (Over C10-C28)	<49.6	U *1	49.6		mg/Kg		01/03/24 08:21	01/04/24 04:39	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/03/24 08:21	01/04/24 04:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*01/03/24 08:21*	*01/04/24 04:39*	*1*
o-Terphenyl	*81*		*70 - 130*	*01/03/24 08:21*	*01/04/24 04:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04		mg/Kg			01/05/24 17:13	1

Client Sample ID: H-19 (0-0.5')

Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Lab Sample ID: 880-37421-19
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/03/24 09:29	01/04/24 10:22	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/03/24 09:29	01/04/24 10:22	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/03/24 09:29	01/04/24 10:22	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/03/24 09:29	01/04/24 10:22	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/03/24 09:29	01/04/24 10:22	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/03/24 09:29	01/04/24 10:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*01/03/24 09:29*	*01/04/24 10:22*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*01/03/24 09:29*	*01/04/24 10:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/04/24 10:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/04/24 04:59	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/03/24 08:21	01/04/24 04:59	1
Diesel Range Organics (Over C10-C28)	<49.7	U *1	49.7		mg/Kg		01/03/24 08:21	01/04/24 04:59	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-19 (0-0.5')

Lab Sample ID: 880-37421-19
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/03/24 08:21	01/04/24 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*01/03/24 08:21*	*01/04/24 04:59*	*1*
o-Terphenyl	*79*		*70 - 130*	*01/03/24 08:21*	*01/04/24 04:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			01/05/24 17:18	1

Client Sample ID: H-20 (0-0.5')

Lab Sample ID: 880-37421-20
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 10:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 10:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 10:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/03/24 09:29	01/04/24 10:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:29	01/04/24 10:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/03/24 09:29	01/04/24 10:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*01/03/24 09:29*	*01/04/24 10:42*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*01/03/24 09:29*	*01/04/24 10:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/04/24 10:42	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			01/04/24 05:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		01/03/24 08:21	01/04/24 05:20	1
Diesel Range Organics (Over C10-C28)	<50.4	U *1	50.4		mg/Kg		01/03/24 08:21	01/04/24 05:20	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/03/24 08:21	01/04/24 05:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*01/03/24 08:21*	*01/04/24 05:20*	*1*
o-Terphenyl	*79*		*70 - 130*	*01/03/24 08:21*	*01/04/24 05:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.50**		5.03		mg/Kg			01/05/24 17:23	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-21 (0-0.5')

Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Lab Sample ID: 880-37421-21
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:31	01/03/24 21:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:31	01/03/24 21:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:31	01/03/24 21:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/03/24 09:31	01/03/24 21:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:31	01/03/24 21:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/03/24 09:31	01/03/24 21:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*01/03/24 09:31*	*01/03/24 21:43*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*01/03/24 09:31*	*01/03/24 21:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/03/24 21:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			01/03/24 18:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		01/02/24 16:49	01/03/24 18:06	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		01/02/24 16:49	01/03/24 18:06	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/02/24 16:49	01/03/24 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*01/02/24 16:49*	*01/03/24 18:06*	*1*
o-Terphenyl	*90*		*70 - 130*	*01/02/24 16:49*	*01/03/24 18:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.03	U	5.03		mg/Kg			01/05/24 17:28	1

Client Sample ID: H-22 (0-0.5')

Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Lab Sample ID: 880-37421-22
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 22:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 22:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 22:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/03/24 09:31	01/03/24 22:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 22:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/03/24 09:31	01/03/24 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/03/24 09:31*	*01/03/24 22:04*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*01/03/24 09:31*	*01/03/24 22:04*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-22 (0-0.5')

Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Lab Sample ID: 880-37421-22
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/03/24 22:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/03/24 18:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/02/24 16:49	01/03/24 18:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/02/24 16:49	01/03/24 18:33	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/02/24 16:49	01/03/24 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*01/02/24 16:49*	*01/03/24 18:33*	*1*
o-Terphenyl	*73*		*70 - 130*	*01/02/24 16:49*	*01/03/24 18:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.01	U	5.01		mg/Kg			01/05/24 17:33	1

Client Sample ID: H-23 (0-0.5')

Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Lab Sample ID: 880-37421-23
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:31	01/03/24 22:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:31	01/03/24 22:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:31	01/03/24 22:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/03/24 09:31	01/03/24 22:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:31	01/03/24 22:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/03/24 09:31	01/03/24 22:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*01/03/24 09:31*	*01/03/24 22:25*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*01/03/24 09:31*	*01/03/24 22:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/03/24 22:25	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/03/24 18:58	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/02/24 16:49	01/03/24 18:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/02/24 16:49	01/03/24 18:58	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-23 (0-0.5')

Lab Sample ID: 880-37421-23
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/02/24 16:49	01/03/24 18:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*01/02/24 16:49*	*01/03/24 18:58*	*1*
o-Terphenyl	*68*	*S1-*	*70 - 130*	*01/02/24 16:49*	*01/03/24 18:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04		mg/Kg			01/05/24 20:54	1

Client Sample ID: H-24 (0-0.5')

Lab Sample ID: 880-37421-24
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 22:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 22:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 22:45	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/03/24 09:31	01/03/24 22:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 22:45	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/03/24 09:31	01/03/24 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*01/03/24 09:31*	*01/03/24 22:45*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*01/03/24 09:31*	*01/03/24 22:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/03/24 22:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			01/03/24 19:22	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/02/24 16:49	01/03/24 19:22	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/02/24 16:49	01/03/24 19:22	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/02/24 16:49	01/03/24 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*70*		*70 - 130*	*01/02/24 16:49*	*01/03/24 19:22*	*1*
o-Terphenyl	*70*		*70 - 130*	*01/02/24 16:49*	*01/03/24 19:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			01/05/24 21:09	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-25 (0-0.5')

Lab Sample ID: 880-37421-25
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 23:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 23:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 23:06	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/03/24 09:31	01/03/24 23:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 23:06	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/03/24 09:31	01/03/24 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*01/03/24 09:31*	*01/03/24 23:06*	*1*
1,4-Difluorobenzene (Surr)	*66*	*S1-*	*70 - 130*	*01/03/24 09:31*	*01/03/24 23:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/03/24 23:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			01/03/24 20:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		01/03/24 08:57	01/03/24 20:32	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		01/03/24 08:57	01/03/24 20:32	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/03/24 08:57	01/03/24 20:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*130*		*70 - 130*	*01/03/24 08:57*	*01/03/24 20:32*	*1*
o-Terphenyl	*113*		*70 - 130*	*01/03/24 08:57*	*01/03/24 20:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97		mg/Kg			01/05/24 21:15	1

Client Sample ID: H-26 (0-0.5')

Lab Sample ID: 880-37421-26
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:31	01/03/24 23:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:31	01/03/24 23:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:31	01/03/24 23:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/03/24 09:31	01/03/24 23:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/03/24 09:31	01/03/24 23:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/03/24 09:31	01/03/24 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*01/03/24 09:31*	*01/03/24 23:26*	*1*
1,4-Difluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*01/03/24 09:31*	*01/03/24 23:26*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-26 (0-0.5')

Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Lab Sample ID: 880-37421-26

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/03/24 23:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			01/03/24 21:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		01/03/24 08:57	01/03/24 21:41	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		01/03/24 08:57	01/03/24 21:41	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/03/24 08:57	01/03/24 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*01/03/24 08:57*	*01/03/24 21:41*	*1*
o-Terphenyl	*121*		*70 - 130*	*01/03/24 08:57*	*01/03/24 21:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96		mg/Kg			01/05/24 21:20	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-37421-1	H-1 (0-0.5')	78	103
880-37421-1 MS	H-1 (0-0.5')	111	104
880-37421-1 MSD	H-1 (0-0.5')	101	100
880-37421-2	H-2 (0-0.5')	100	109
880-37421-3	H-3 (0-0.5')	104	112
880-37421-4	H-4 (0-0.5')	98	110
880-37421-5	H-5 (0-0.5')	98	106
880-37421-6	H-6 (0-0.5')	106	106
880-37421-7	H-7 (0-0.5')	108	117
880-37421-8	H-8 (0-0.5')	110	106
880-37421-9	H-9 (0-0.5')	100	112
880-37421-10	H-10 (0-0.5')	105	108
880-37421-11	H-11 (0-0.5')	83	105
880-37421-12	H-12 (0-0.5')	102	113
880-37421-13	H-13 (0-0.5')	99	119
880-37421-14	H-14 (0-0.5')	111	119
880-37421-15	H-15 (0-0.5')	110	110
880-37421-16	H-16 (0-0.5')	108	112
880-37421-17	H-17 (0-0.5')	110	112
880-37421-18	H-18 (0-0.5')	111	110
880-37421-19	H-19 (0-0.5')	115	114
880-37421-20	H-20 (0-0.5')	115	107
880-37421-21	H-21 (0-0.5')	97	92
880-37421-21 MS	H-21 (0-0.5')	129	96
880-37421-21 MSD	H-21 (0-0.5')	128	104
880-37421-22	H-22 (0-0.5')	100	89
880-37421-23	H-23 (0-0.5')	97	88
880-37421-24	H-24 (0-0.5')	128	77
880-37421-25	H-25 (0-0.5')	126	66 S1-
880-37421-26	H-26 (0-0.5')	124	69 S1-
LCS 880-70109/1-A	Lab Control Sample	97	109
LCS 880-70110/1-A	Lab Control Sample	128	100
LCSD 880-70109/2-A	Lab Control Sample Dup	102	109
LCSD 880-70110/2-A	Lab Control Sample Dup	121	104
MB 880-70055/5-A	Method Blank	109	121
MB 880-70101/5-A	Method Blank	89	86
MB 880-70109/5-A	Method Blank	101	121
MB 880-70110/5-A	Method Blank	90	88

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-37421-1	H-1 (0-0.5')	74	75

Surrogate Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)								
880-37421-1 MS	H-1 (0-0.5')	68 S1-	66 S1-								
880-37421-1 MSD	H-1 (0-0.5')	77	71								
880-37421-2	H-2 (0-0.5')	79	80								
880-37421-3	H-3 (0-0.5')	79	78								
880-37421-4	H-4 (0-0.5')	78	77								
880-37421-5	H-5 (0-0.5')	84	83								
880-37421-6	H-6 (0-0.5')	85	86								
880-37421-7	H-7 (0-0.5')	87	87								
880-37421-8	H-8 (0-0.5')	81	81								
880-37421-9	H-9 (0-0.5')	84	83								
880-37421-10	H-10 (0-0.5')	81	81								
880-37421-11	H-11 (0-0.5')	80	83								
880-37421-12	H-12 (0-0.5')	78	79								
880-37421-13	H-13 (0-0.5')	84	84								
880-37421-14	H-14 (0-0.5')	84	84								
880-37421-15	H-15 (0-0.5')	84	84								
880-37421-16	H-16 (0-0.5')	82	83								
880-37421-17	H-17 (0-0.5')	83	86								
880-37421-18	H-18 (0-0.5')	80	81								
880-37421-19	H-19 (0-0.5')	78	79								
880-37421-20	H-20 (0-0.5')	78	79								
880-37421-21	H-21 (0-0.5')	88	90								
880-37421-22	H-22 (0-0.5')	72	73								
880-37421-23	H-23 (0-0.5')	68 S1-	68 S1-								
880-37421-24	H-24 (0-0.5')	70	70								
880-37421-25	H-25 (0-0.5')	130	113								
880-37421-25 MS	H-25 (0-0.5')	134 S1+	102								
880-37421-25 MSD	H-25 (0-0.5')	118	90								
880-37421-26	H-26 (0-0.5')	136 S1+	121								
890-5828-A-1-E MS	Matrix Spike	85	77								
890-5828-A-1-F MSD	Matrix Spike Duplicate	77	72								
LCS 880-70029/2-A	Lab Control Sample	112	125								
LCS 880-70103/2-A	Lab Control Sample	129	144 S1+								
LCS 880-70106/2-A	Lab Control Sample	93	87								
LCSD 880-70029/3-A	Lab Control Sample Dup	89	97								
LCSD 880-70103/3-A	Lab Control Sample Dup	87	94								
LCSD 880-70106/3-A	Lab Control Sample Dup	86	82								
MB 880-70029/1-A - RA2	Method Blank	73	80								
MB 880-70103/1-A	Method Blank	73	80								
MB 880-70106/1-A	Method Blank	124	120								

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-70055/5-A
Matrix: Solid
Analysis Batch: 70094

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70055

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:37	01/03/24 11:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:37	01/03/24 11:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:37	01/03/24 11:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/02/24 14:37	01/03/24 11:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/02/24 14:37	01/03/24 11:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/02/24 14:37	01/03/24 11:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*01/02/24 14:37*	*01/03/24 11:09*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*01/02/24 14:37*	*01/03/24 11:09*	*1*

Lab Sample ID: MB 880-70101/5-A
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70101

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/24 08:10	01/03/24 10:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/24 08:10	01/03/24 10:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/24 08:10	01/03/24 10:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/03/24 08:10	01/03/24 10:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/24 08:10	01/03/24 10:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/03/24 08:10	01/03/24 10:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*01/03/24 08:10*	*01/03/24 10:40*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*01/03/24 08:10*	*01/03/24 10:40*	*1*

Lab Sample ID: MB 880-70109/5-A
Matrix: Solid
Analysis Batch: 70094

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70109

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 02:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 02:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 02:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/03/24 09:29	01/04/24 02:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:29	01/04/24 02:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/03/24 09:29	01/04/24 02:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*01/03/24 09:29*	*01/04/24 02:16*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*01/03/24 09:29*	*01/04/24 02:16*	*1*

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-70109/1-A
Matrix: Solid
Analysis Batch: 70094

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70109

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1011		mg/Kg		101	70 - 130		
Toluene			0.100	0.09124		mg/Kg		91	70 - 130		
Ethylbenzene			0.100	0.08811		mg/Kg		88	70 - 130		
m-Xylene & p-Xylene			0.200	0.2012		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.1035		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: LCSD 880-70109/2-A
Matrix: Solid
Analysis Batch: 70094

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70109

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1067		mg/Kg		107	70 - 130	5	35
Toluene			0.100	0.08980		mg/Kg		90	70 - 130	2	35
Ethylbenzene			0.100	0.09307		mg/Kg		93	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2155		mg/Kg		108	70 - 130	7	35
o-Xylene			0.100	0.1112		mg/Kg		111	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 880-37421-1 MS
Matrix: Solid
Analysis Batch: 70094

Client Sample ID: H-1 (0-0.5')
Prep Type: Total/NA
Prep Batch: 70109

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0996	0.09437		mg/Kg		95	70 - 130		
Toluene	<0.00199	U	0.0996	0.08298		mg/Kg		83	70 - 130		
Ethylbenzene	<0.00199	U	0.0996	0.08217		mg/Kg		82	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1979		mg/Kg		99	70 - 130		
o-Xylene	<0.00199	U	0.0996	0.1021		mg/Kg		102	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-37421-1 MSD
Matrix: Solid
Analysis Batch: 70094

Client Sample ID: H-1 (0-0.5')
Prep Type: Total/NA
Prep Batch: 70109

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.09700		mg/Kg		98	70 - 130	3	35
Toluene	<0.00199	U	0.0990	0.08771		mg/Kg		89	70 - 130	6	35
Ethylbenzene	<0.00199	U	0.0990	0.08526		mg/Kg		86	70 - 130	4	35

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-37421-1 MSD
Matrix: Solid
Analysis Batch: 70094

Client Sample ID: H-1 (0-0.5')
Prep Type: Total/NA
Prep Batch: 70109

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1938		mg/Kg		98	70 - 130	2	35
o-Xylene	<0.00199	U	0.0990	0.09809		mg/Kg		99	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 880-70110/5-A
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70110

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 21:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 21:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 21:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/03/24 09:31	01/03/24 21:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/24 09:31	01/03/24 21:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/03/24 09:31	01/03/24 21:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*01/03/24 09:31*	*01/03/24 21:21*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*01/03/24 09:31*	*01/03/24 21:21*	*1*

Lab Sample ID: LCS 880-70110/1-A
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70110

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08217		mg/Kg		82	70 - 130
Toluene	0.100	0.07484		mg/Kg		75	70 - 130
Ethylbenzene	0.100	0.08784		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1991		mg/Kg		100	70 - 130
o-Xylene	0.100	0.09970		mg/Kg		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-70110/2-A
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70110

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08983		mg/Kg		90	70 - 130	9	35
Toluene	0.100	0.08580		mg/Kg		86	70 - 130	14	35
Ethylbenzene	0.100	0.1043		mg/Kg		104	70 - 130	17	35
m-Xylene & p-Xylene	0.200	0.2213		mg/Kg		111	70 - 130	11	35
o-Xylene	0.100	0.1087		mg/Kg		109	70 - 130	9	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-37421-21 MS
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: H-21 (0-0.5')
Prep Type: Total/NA
Prep Batch: 70110

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.08414		mg/Kg		84	70 - 130
Toluene	<0.00199	U	0.0996	0.07325		mg/Kg		74	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.09158		mg/Kg		92	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1862		mg/Kg		93	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09753		mg/Kg		98	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-37421-21 MSD
Matrix: Solid
Analysis Batch: 70093

Client Sample ID: H-21 (0-0.5')
Prep Type: Total/NA
Prep Batch: 70110

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.09408		mg/Kg		95	70 - 130	11	35
Toluene	<0.00199	U	0.0990	0.08267		mg/Kg		83	70 - 130	12	35
Ethylbenzene	<0.00199	U	0.0990	0.1015		mg/Kg		103	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2070		mg/Kg		105	70 - 130	11	35
o-Xylene	<0.00199	U	0.0990	0.1073		mg/Kg		108	70 - 130	10	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: LCS 880-70029/2-A
Matrix: Solid
Analysis Batch: 70090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70029

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	933.8		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1023		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	125		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-70029/3-A
Matrix: Solid
Analysis Batch: 70090

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70029

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	925.9		mg/Kg		93	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	927.0		mg/Kg		93	70 - 130	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*89*		*70 - 130*
o-Terphenyl	*97*		*70 - 130*

Lab Sample ID: 890-5828-A-1-E MS
Matrix: Solid
Analysis Batch: 70090

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 70029

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.6	U F1	1010	679.6	F1	mg/Kg		67	70 - 130
Diesel Range Organics (Over C10-C28)	52.4	F1	1010	753.7	F1	mg/Kg		69	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*85*		*70 - 130*
o-Terphenyl	*77*		*70 - 130*

Lab Sample ID: 890-5828-A-1-F MSD
Matrix: Solid
Analysis Batch: 70090

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 70029

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U F1	1010	635.8	F1	mg/Kg		63	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	52.4	F1	1010	690.1	F1	mg/Kg		63	70 - 130	9	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*77*		*70 - 130*
o-Terphenyl	*72*		*70 - 130*

Lab Sample ID: MB 880-70103/1-A
Matrix: Solid
Analysis Batch: 70090

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70103

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/03/24 08:21	01/03/24 20:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/03/24 08:21	01/03/24 20:14	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/03/24 08:21	01/03/24 20:14	1

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-70103/1-A
Matrix: Solid
Analysis Batch: 70090

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70103

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	01/03/24 08:21	01/03/24 20:14	1
o-Terphenyl	80		70 - 130	01/03/24 08:21	01/03/24 20:14	1

Lab Sample ID: LCS 880-70103/2-A
Matrix: Solid
Analysis Batch: 70090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70103

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	971.2		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1142		mg/Kg		114	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	129		70 - 130
o-Terphenyl	144	S1+	70 - 130

Lab Sample ID: LCSD 880-70103/3-A
Matrix: Solid
Analysis Batch: 70090

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70103

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	890.0		mg/Kg		89	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	907.8	*1	mg/Kg		91	70 - 130	23	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	94		70 - 130

Lab Sample ID: 880-37421-1 MS
Matrix: Solid
Analysis Batch: 70090

Client Sample ID: H-1 (0-0.5')
Prep Type: Total/NA
Prep Batch: 70103

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	1000	568.8	F1	mg/Kg		57	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U F1 *1	1000	575.3	F1	mg/Kg		55	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	68	S1-	70 - 130
o-Terphenyl	66	S1-	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-37421-1 MSD — **Client Sample ID: H-1 (0-0.5')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 70090 — **Prep Batch: 70103**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	1000	638.6	F1	mg/Kg		64	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1 *1	1000	637.6	F1	mg/Kg		62	70 - 130	10	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*77*		*70 - 130*
o-Terphenyl	*71*		*70 - 130*

Lab Sample ID: MB 880-70106/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 70085 — **Prep Batch: 70106**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/03/24 08:57	01/03/24 19:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/03/24 08:57	01/03/24 19:24	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/03/24 08:57	01/03/24 19:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*01/03/24 08:57*	*01/03/24 19:24*	*1*
o-Terphenyl	*120*		*70 - 130*	*01/03/24 08:57*	*01/03/24 19:24*	*1*

Lab Sample ID: LCS 880-70106/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 70085 — **Prep Batch: 70106**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	877.3		mg/Kg		88	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	973.5		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*93*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Lab Sample ID: LCSD 880-70106/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 70085 — **Prep Batch: 70106**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	850.3		mg/Kg		85	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	889.6		mg/Kg		89	70 - 130	9	20

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-70106/3-A
Matrix: Solid
Analysis Batch: 70085

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 70106

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 880-37421-25 MS
Matrix: Solid
Analysis Batch: 70085

Client Sample ID: H-25 (0-0.5')
Prep Type: Total/NA
Prep Batch: 70106

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	1126		mg/Kg		110	70 - 130
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	1208		mg/Kg		118	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	134	S1+	70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: 880-37421-25 MSD
Matrix: Solid
Analysis Batch: 70085

Client Sample ID: H-25 (0-0.5')
Prep Type: Total/NA
Prep Batch: 70106

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	1010	983.8		mg/Kg		96	70 - 130	13	20
Diesel Range Organics (Over C10-C28)	<49.6	U	1010	1081		mg/Kg		105	70 - 130	11	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	90		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC) - RA2

Lab Sample ID: MB 880-70029/1-A
Matrix: Solid
Analysis Batch: 70090

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70029

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 - RA2	<50.0	U	50.0		mg/Kg		01/02/24 09:50	01/03/24 07:57	1
Diesel Range Organics (Over C10-C28) - RA2	<50.0	U	50.0		mg/Kg		01/02/24 09:50	01/03/24 07:57	1
OII Range Organics (Over C28-C36) - RA2	<50.0	U	50.0		mg/Kg		01/02/24 09:50	01/03/24 07:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane - RA2	73		70 - 130	01/02/24 09:50	01/03/24 07:57	1
o-Terphenyl - RA2	80		70 - 130	01/02/24 09:50	01/03/24 07:57	1

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-70072/1-A
Matrix: Solid
Analysis Batch: 70193

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/05/24 08:58	1

Lab Sample ID: LCS 880-70072/2-A
Matrix: Solid
Analysis Batch: 70193

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	258.4		mg/Kg		103	90 - 110

Lab Sample ID: LCSD 880-70072/3-A
Matrix: Solid
Analysis Batch: 70193

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	250.4		mg/Kg		100	90 - 110	3	20

Lab Sample ID: 880-37379-A-1-B MS
Matrix: Solid
Analysis Batch: 70193

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	64.2		253	333.8		mg/Kg		107	90 - 110

Lab Sample ID: 880-37379-A-1-C MSD
Matrix: Solid
Analysis Batch: 70193

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	64.2		253	337.5		mg/Kg		108	90 - 110	1	20

Lab Sample ID: MB 880-70074/1-A
Matrix: Solid
Analysis Batch: 70195

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/05/24 14:52	1

Lab Sample ID: LCS 880-70074/2-A
Matrix: Solid
Analysis Batch: 70195

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	250.5		mg/Kg		100	90 - 110

Lab Sample ID: LCSD 880-70074/3-A
Matrix: Solid
Analysis Batch: 70195

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	249.7		mg/Kg		100	90 - 110	0	20

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-37421-3 MS — **Client Sample ID: H-3 (0-0.5')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 70195

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	21.3		253	279.5		mg/Kg		102	90 - 110

Lab Sample ID: 880-37421-3 MSD — **Client Sample ID: H-3 (0-0.5')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 70195

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	21.3		253	279.4		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-37421-13 MS — **Client Sample ID: H-13 (0-0.5')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 70195

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<5.02	U	251	255.3		mg/Kg		101	90 - 110

Lab Sample ID: 880-37421-13 MSD — **Client Sample ID: H-13 (0-0.5')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 70195

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<5.02	U	251	254.5		mg/Kg		100	90 - 110	0	20

Lab Sample ID: MB 880-70105/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 70198

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/05/24 20:39	1

Lab Sample ID: LCS 880-70105/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 70198

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	253.1		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-70105/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 70198

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	253.7		mg/Kg		101	90 - 110	0	20

Lab Sample ID: 880-37421-23 MS — **Client Sample ID: H-23 (0-0.5')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 70198

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	<5.04	U	252	251.7		mg/Kg		99	90 - 110

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-37421-23 MSD
Matrix: Solid
Analysis Batch: 70198

Client Sample ID: H-23 (0-0.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	<5.04	U	252	251.5		mg/Kg		99	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 70055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-70055/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 70093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37421-21	H-21 (0-0.5')	Total/NA	Solid	8021B	70110
880-37421-22	H-22 (0-0.5')	Total/NA	Solid	8021B	70110
880-37421-23	H-23 (0-0.5')	Total/NA	Solid	8021B	70110
880-37421-24	H-24 (0-0.5')	Total/NA	Solid	8021B	70110
880-37421-25	H-25 (0-0.5')	Total/NA	Solid	8021B	70110
880-37421-26	H-26 (0-0.5')	Total/NA	Solid	8021B	70110
MB 880-70101/5-A	Method Blank	Total/NA	Solid	8021B	70101
MB 880-70110/5-A	Method Blank	Total/NA	Solid	8021B	70110
LCS 880-70110/1-A	Lab Control Sample	Total/NA	Solid	8021B	70110
LCSD 880-70110/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70110
880-37421-21 MS	H-21 (0-0.5')	Total/NA	Solid	8021B	70110
880-37421-21 MSD	H-21 (0-0.5')	Total/NA	Solid	8021B	70110

Analysis Batch: 70094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37421-1	H-1 (0-0.5')	Total/NA	Solid	8021B	70109
880-37421-2	H-2 (0-0.5')	Total/NA	Solid	8021B	70109
880-37421-3	H-3 (0-0.5')	Total/NA	Solid	8021B	70109
880-37421-4	H-4 (0-0.5')	Total/NA	Solid	8021B	70109
880-37421-5	H-5 (0-0.5')	Total/NA	Solid	8021B	70109
880-37421-6	H-6 (0-0.5')	Total/NA	Solid	8021B	70109
880-37421-7	H-7 (0-0.5')	Total/NA	Solid	8021B	70109
880-37421-8	H-8 (0-0.5')	Total/NA	Solid	8021B	70109
880-37421-9	H-9 (0-0.5')	Total/NA	Solid	8021B	70109
880-37421-10	H-10 (0-0.5')	Total/NA	Solid	8021B	70109
880-37421-11	H-11 (0-0.5')	Total/NA	Solid	8021B	70109
880-37421-12	H-12 (0-0.5')	Total/NA	Solid	8021B	70109
880-37421-13	H-13 (0-0.5')	Total/NA	Solid	8021B	70109
880-37421-14	H-14 (0-0.5')	Total/NA	Solid	8021B	70109
880-37421-15	H-15 (0-0.5')	Total/NA	Solid	8021B	70109
880-37421-16	H-16 (0-0.5')	Total/NA	Solid	8021B	70109
880-37421-17	H-17 (0-0.5')	Total/NA	Solid	8021B	70109
880-37421-18	H-18 (0-0.5')	Total/NA	Solid	8021B	70109
880-37421-19	H-19 (0-0.5')	Total/NA	Solid	8021B	70109
880-37421-20	H-20 (0-0.5')	Total/NA	Solid	8021B	70109
MB 880-70055/5-A	Method Blank	Total/NA	Solid	8021B	70055
MB 880-70109/5-A	Method Blank	Total/NA	Solid	8021B	70109
LCS 880-70109/1-A	Lab Control Sample	Total/NA	Solid	8021B	70109
LCSD 880-70109/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	70109
880-37421-1 MS	H-1 (0-0.5')	Total/NA	Solid	8021B	70109
880-37421-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8021B	70109

Prep Batch: 70101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-70101/5-A	Method Blank	Total/NA	Solid	5035	

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 70109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37421-1	H-1 (0-0.5')	Total/NA	Solid	5035	
880-37421-2	H-2 (0-0.5')	Total/NA	Solid	5035	
880-37421-3	H-3 (0-0.5')	Total/NA	Solid	5035	
880-37421-4	H-4 (0-0.5')	Total/NA	Solid	5035	
880-37421-5	H-5 (0-0.5')	Total/NA	Solid	5035	
880-37421-6	H-6 (0-0.5')	Total/NA	Solid	5035	
880-37421-7	H-7 (0-0.5')	Total/NA	Solid	5035	
880-37421-8	H-8 (0-0.5')	Total/NA	Solid	5035	
880-37421-9	H-9 (0-0.5')	Total/NA	Solid	5035	
880-37421-10	H-10 (0-0.5')	Total/NA	Solid	5035	
880-37421-11	H-11 (0-0.5')	Total/NA	Solid	5035	
880-37421-12	H-12 (0-0.5')	Total/NA	Solid	5035	
880-37421-13	H-13 (0-0.5')	Total/NA	Solid	5035	
880-37421-14	H-14 (0-0.5')	Total/NA	Solid	5035	
880-37421-15	H-15 (0-0.5')	Total/NA	Solid	5035	
880-37421-16	H-16 (0-0.5')	Total/NA	Solid	5035	
880-37421-17	H-17 (0-0.5')	Total/NA	Solid	5035	
880-37421-18	H-18 (0-0.5')	Total/NA	Solid	5035	
880-37421-19	H-19 (0-0.5')	Total/NA	Solid	5035	
880-37421-20	H-20 (0-0.5')	Total/NA	Solid	5035	
MB 880-70109/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70109/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70109/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-37421-1 MS	H-1 (0-0.5')	Total/NA	Solid	5035	
880-37421-1 MSD	H-1 (0-0.5')	Total/NA	Solid	5035	

Prep Batch: 70110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37421-21	H-21 (0-0.5')	Total/NA	Solid	5035	
880-37421-22	H-22 (0-0.5')	Total/NA	Solid	5035	
880-37421-23	H-23 (0-0.5')	Total/NA	Solid	5035	
880-37421-24	H-24 (0-0.5')	Total/NA	Solid	5035	
880-37421-25	H-25 (0-0.5')	Total/NA	Solid	5035	
880-37421-26	H-26 (0-0.5')	Total/NA	Solid	5035	
MB 880-70110/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-70110/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-70110/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-37421-21 MS	H-21 (0-0.5')	Total/NA	Solid	5035	
880-37421-21 MSD	H-21 (0-0.5')	Total/NA	Solid	5035	

Analysis Batch: 70232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37421-1	H-1 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-2	H-2 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-3	H-3 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-4	H-4 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-5	H-5 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-6	H-6 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-7	H-7 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-8	H-8 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-9	H-9 (0-0.5')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Analysis Batch: 70232 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37421-10	H-10 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-11	H-11 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-12	H-12 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-13	H-13 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-14	H-14 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-15	H-15 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-16	H-16 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-17	H-17 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-18	H-18 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-19	H-19 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-20	H-20 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-21	H-21 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-22	H-22 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-23	H-23 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-24	H-24 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-25	H-25 (0-0.5')	Total/NA	Solid	Total BTEX	
880-37421-26	H-26 (0-0.5')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 70029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37421-21	H-21 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-22	H-22 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-23	H-23 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-24	H-24 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-70029/1-A - RA2	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70029/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70029/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-5828-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-5828-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 70085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37421-25	H-25 (0-0.5')	Total/NA	Solid	8015B NM	70106
880-37421-26	H-26 (0-0.5')	Total/NA	Solid	8015B NM	70106
MB 880-70106/1-A	Method Blank	Total/NA	Solid	8015B NM	70106
LCS 880-70106/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70106
LCSD 880-70106/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70106
880-37421-25 MS	H-25 (0-0.5')	Total/NA	Solid	8015B NM	70106
880-37421-25 MSD	H-25 (0-0.5')	Total/NA	Solid	8015B NM	70106

Analysis Batch: 70090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37421-1	H-1 (0-0.5')	Total/NA	Solid	8015B NM	70103
880-37421-2	H-2 (0-0.5')	Total/NA	Solid	8015B NM	70103
880-37421-3	H-3 (0-0.5')	Total/NA	Solid	8015B NM	70103
880-37421-4	H-4 (0-0.5')	Total/NA	Solid	8015B NM	70103
880-37421-5	H-5 (0-0.5')	Total/NA	Solid	8015B NM	70103
880-37421-6	H-6 (0-0.5')	Total/NA	Solid	8015B NM	70103
880-37421-7	H-7 (0-0.5')	Total/NA	Solid	8015B NM	70103

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 70090 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37421-8	H-8 (0-0.5')	Total/NA	Solid	8015B NM	70103
880-37421-9	H-9 (0-0.5')	Total/NA	Solid	8015B NM	70103
880-37421-10	H-10 (0-0.5')	Total/NA	Solid	8015B NM	70103
880-37421-11	H-11 (0-0.5')	Total/NA	Solid	8015B NM	70103
880-37421-12	H-12 (0-0.5')	Total/NA	Solid	8015B NM	70103
880-37421-13	H-13 (0-0.5')	Total/NA	Solid	8015B NM	70103
880-37421-14	H-14 (0-0.5')	Total/NA	Solid	8015B NM	70103
880-37421-15	H-15 (0-0.5')	Total/NA	Solid	8015B NM	70103
880-37421-16	H-16 (0-0.5')	Total/NA	Solid	8015B NM	70103
880-37421-17	H-17 (0-0.5')	Total/NA	Solid	8015B NM	70103
880-37421-18	H-18 (0-0.5')	Total/NA	Solid	8015B NM	70103
880-37421-19	H-19 (0-0.5')	Total/NA	Solid	8015B NM	70103
880-37421-20	H-20 (0-0.5')	Total/NA	Solid	8015B NM	70103
880-37421-21	H-21 (0-0.5')	Total/NA	Solid	8015B NM	70029
880-37421-22	H-22 (0-0.5')	Total/NA	Solid	8015B NM	70029
880-37421-23	H-23 (0-0.5')	Total/NA	Solid	8015B NM	70029
880-37421-24	H-24 (0-0.5')	Total/NA	Solid	8015B NM	70029
MB 880-70029/1-A - RA2	Method Blank	Total/NA	Solid	8015B NM	70029
MB 880-70103/1-A	Method Blank	Total/NA	Solid	8015B NM	70103
LCS 880-70029/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70029
LCS 880-70103/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	70103
LCSD 880-70029/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70029
LCSD 880-70103/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	70103
880-37421-1 MS	H-1 (0-0.5')	Total/NA	Solid	8015B NM	70103
880-37421-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8015B NM	70103
890-5828-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	70029
890-5828-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	70029

Prep Batch: 70103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37421-1	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-2	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-3	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-4	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-5	H-5 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-6	H-6 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-7	H-7 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-8	H-8 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-9	H-9 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-10	H-10 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-11	H-11 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-12	H-12 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-13	H-13 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-14	H-14 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-15	H-15 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-16	H-16 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-17	H-17 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-18	H-18 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-19	H-19 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-20	H-20 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-70103/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Prep Batch: 70103 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-70103/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70103/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-37421-1 MS	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-1 MSD	H-1 (0-0.5')	Total/NA	Solid	8015NM Prep	

Prep Batch: 70106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37421-25	H-25 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-26	H-26 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-70106/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-70106/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-70106/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-37421-25 MS	H-25 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-37421-25 MSD	H-25 (0-0.5')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 70153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37421-1	H-1 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-2	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-3	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-4	H-4 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-5	H-5 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-6	H-6 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-7	H-7 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-8	H-8 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-9	H-9 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-10	H-10 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-11	H-11 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-12	H-12 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-13	H-13 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-14	H-14 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-15	H-15 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-16	H-16 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-17	H-17 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-18	H-18 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-19	H-19 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-20	H-20 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-21	H-21 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-22	H-22 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-23	H-23 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-24	H-24 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-25	H-25 (0-0.5')	Total/NA	Solid	8015 NM	
880-37421-26	H-26 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 70072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37421-1	H-1 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-2	H-2 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-70072/1-A	Method Blank	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 70072 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-70072/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70072/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-37379-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-37379-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 70074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37421-3	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-4	H-4 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-5	H-5 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-6	H-6 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-7	H-7 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-8	H-8 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-9	H-9 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-10	H-10 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-11	H-11 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-12	H-12 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-13	H-13 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-14	H-14 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-15	H-15 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-16	H-16 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-17	H-17 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-18	H-18 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-19	H-19 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-20	H-20 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-21	H-21 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-22	H-22 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-70074/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70074/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70074/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-37421-3 MS	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-3 MSD	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-13 MS	H-13 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-13 MSD	H-13 (0-0.5')	Soluble	Solid	DI Leach	

Leach Batch: 70105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37421-23	H-23 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-24	H-24 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-25	H-25 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-26	H-26 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-70105/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-70105/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-70105/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-37421-23 MS	H-23 (0-0.5')	Soluble	Solid	DI Leach	
880-37421-23 MSD	H-23 (0-0.5')	Soluble	Solid	DI Leach	

Analysis Batch: 70193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37421-1	H-1 (0-0.5')	Soluble	Solid	300.0	70072
880-37421-2	H-2 (0-0.5')	Soluble	Solid	300.0	70072

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 70193 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-70072/1-A	Method Blank	Soluble	Solid	300.0	70072
LCS 880-70072/2-A	Lab Control Sample	Soluble	Solid	300.0	70072
LCSD 880-70072/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70072
880-37379-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	70072
880-37379-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	70072

Analysis Batch: 70195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37421-3	H-3 (0-0.5')	Soluble	Solid	300.0	70074
880-37421-4	H-4 (0-0.5')	Soluble	Solid	300.0	70074
880-37421-5	H-5 (0-0.5')	Soluble	Solid	300.0	70074
880-37421-6	H-6 (0-0.5')	Soluble	Solid	300.0	70074
880-37421-7	H-7 (0-0.5')	Soluble	Solid	300.0	70074
880-37421-8	H-8 (0-0.5')	Soluble	Solid	300.0	70074
880-37421-9	H-9 (0-0.5')	Soluble	Solid	300.0	70074
880-37421-10	H-10 (0-0.5')	Soluble	Solid	300.0	70074
880-37421-11	H-11 (0-0.5')	Soluble	Solid	300.0	70074
880-37421-12	H-12 (0-0.5')	Soluble	Solid	300.0	70074
880-37421-13	H-13 (0-0.5')	Soluble	Solid	300.0	70074
880-37421-14	H-14 (0-0.5')	Soluble	Solid	300.0	70074
880-37421-15	H-15 (0-0.5')	Soluble	Solid	300.0	70074
880-37421-16	H-16 (0-0.5')	Soluble	Solid	300.0	70074
880-37421-17	H-17 (0-0.5')	Soluble	Solid	300.0	70074
880-37421-18	H-18 (0-0.5')	Soluble	Solid	300.0	70074
880-37421-19	H-19 (0-0.5')	Soluble	Solid	300.0	70074
880-37421-20	H-20 (0-0.5')	Soluble	Solid	300.0	70074
880-37421-21	H-21 (0-0.5')	Soluble	Solid	300.0	70074
880-37421-22	H-22 (0-0.5')	Soluble	Solid	300.0	70074
MB 880-70074/1-A	Method Blank	Soluble	Solid	300.0	70074
LCS 880-70074/2-A	Lab Control Sample	Soluble	Solid	300.0	70074
LCSD 880-70074/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70074
880-37421-3 MS	H-3 (0-0.5')	Soluble	Solid	300.0	70074
880-37421-3 MSD	H-3 (0-0.5')	Soluble	Solid	300.0	70074
880-37421-13 MS	H-13 (0-0.5')	Soluble	Solid	300.0	70074
880-37421-13 MSD	H-13 (0-0.5')	Soluble	Solid	300.0	70074

Analysis Batch: 70198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-37421-23	H-23 (0-0.5')	Soluble	Solid	300.0	70105
880-37421-24	H-24 (0-0.5')	Soluble	Solid	300.0	70105
880-37421-25	H-25 (0-0.5')	Soluble	Solid	300.0	70105
880-37421-26	H-26 (0-0.5')	Soluble	Solid	300.0	70105
MB 880-70105/1-A	Method Blank	Soluble	Solid	300.0	70105
LCS 880-70105/2-A	Lab Control Sample	Soluble	Solid	300.0	70105
LCSD 880-70105/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	70105
880-37421-23 MS	H-23 (0-0.5')	Soluble	Solid	300.0	70105
880-37421-23 MSD	H-23 (0-0.5')	Soluble	Solid	300.0	70105

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-1 (0-0.5')

Lab Sample ID: 880-37421-1
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	70109	01/03/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70094	01/04/24 02:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/04/24 02:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			70153	01/03/24 21:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	70103	01/03/24 08:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/03/24 21:35	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70072	01/02/24 16:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70193	01/05/24 12:03	CH	EET MID

Client Sample ID: H-2 (0-0.5')

Lab Sample ID: 880-37421-2
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	70109	01/03/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70094	01/04/24 03:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/04/24 03:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			70153	01/03/24 22:49	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70103	01/03/24 08:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/03/24 22:49	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	70072	01/02/24 16:45	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70193	01/05/24 12:11	CH	EET MID

Client Sample ID: H-3 (0-0.5')

Lab Sample ID: 880-37421-3
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	70109	01/03/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70094	01/04/24 03:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/04/24 03:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			70153	01/03/24 23:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	70103	01/03/24 08:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/03/24 23:12	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	70074	01/02/24 16:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70195	01/05/24 15:15	CH	EET MID

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-37421-4
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	70109	01/03/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70094	01/04/24 03:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/04/24 03:46	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-4 (0-0.5')

Lab Sample ID: 880-37421-4
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			70153	01/03/24 23:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	70103	01/03/24 08:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/03/24 23:32	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	70074	01/02/24 16:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70195	01/05/24 15:30	CH	EET MID

Client Sample ID: H-5 (0-0.5')

Lab Sample ID: 880-37421-5
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	70109	01/03/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70094	01/04/24 04:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/04/24 04:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			70153	01/03/24 23:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	70103	01/03/24 08:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/03/24 23:52	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	70074	01/02/24 16:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70195	01/05/24 15:35	CH	EET MID

Client Sample ID: H-6 (0-0.5')

Lab Sample ID: 880-37421-6
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	70109	01/03/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70094	01/04/24 04:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/04/24 04:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			70153	01/04/24 00:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	70103	01/03/24 08:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/04/24 00:13	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	70074	01/02/24 16:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70195	01/05/24 15:40	CH	EET MID

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-37421-7
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	70109	01/03/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70094	01/04/24 04:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/04/24 04:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			70153	01/04/24 00:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	70103	01/03/24 08:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/04/24 00:34	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-7 (0-0.5')

Lab Sample ID: 880-37421-7
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	70074	01/02/24 16:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70195	01/05/24 15:45	CH	EET MID

Client Sample ID: H-8 (0-0.5')

Lab Sample ID: 880-37421-8
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	70109	01/03/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70094	01/04/24 05:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/04/24 05:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			70153	01/04/24 00:55	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	70103	01/03/24 08:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/04/24 00:55	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	70074	01/02/24 16:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70195	01/05/24 16:01	CH	EET MID

Client Sample ID: H-9 (0-0.5')

Lab Sample ID: 880-37421-9
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	70109	01/03/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70094	01/04/24 05:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/04/24 05:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			70153	01/04/24 01:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	70103	01/03/24 08:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/04/24 01:15	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	70074	01/02/24 16:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70195	01/05/24 16:06	CH	EET MID

Client Sample ID: H-10 (0-0.5')

Lab Sample ID: 880-37421-10
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	70109	01/03/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70094	01/04/24 05:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/04/24 05:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			70153	01/04/24 01:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	70103	01/03/24 08:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/04/24 01:36	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70074	01/02/24 16:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70195	01/05/24 16:11	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-11 (0-0.5')

Lab Sample ID: 880-37421-11
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	70109	01/03/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70094	01/04/24 07:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/04/24 07:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			70153	01/04/24 02:17	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	70103	01/03/24 08:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/04/24 02:17	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	70074	01/02/24 16:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70195	01/05/24 16:16	CH	EET MID

Client Sample ID: H-12 (0-0.5')

Lab Sample ID: 880-37421-12
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	70109	01/03/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70094	01/04/24 07:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/04/24 07:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			70153	01/04/24 02:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	70103	01/03/24 08:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/04/24 02:37	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	70074	01/02/24 16:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70195	01/05/24 16:21	CH	EET MID

Client Sample ID: H-13 (0-0.5')

Lab Sample ID: 880-37421-13
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	70109	01/03/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70094	01/04/24 08:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/04/24 08:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			70153	01/04/24 02:57	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	70103	01/03/24 08:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/04/24 02:57	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	70074	01/02/24 16:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70195	01/05/24 16:26	CH	EET MID

Client Sample ID: H-14 (0-0.5')

Lab Sample ID: 880-37421-14
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	70109	01/03/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70094	01/04/24 08:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/04/24 08:40	SM	EET MID

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Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-14 (0-0.5')

Lab Sample ID: 880-37421-14
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			70153	01/04/24 03:18	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70103	01/03/24 08:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/04/24 03:18	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70074	01/02/24 16:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70195	01/05/24 16:42	CH	EET MID

Client Sample ID: H-15 (0-0.5')

Lab Sample ID: 880-37421-15
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	70109	01/03/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70094	01/04/24 09:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/04/24 09:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			70153	01/04/24 03:38	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70103	01/03/24 08:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/04/24 03:38	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70074	01/02/24 16:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70195	01/05/24 16:47	CH	EET MID

Client Sample ID: H-16 (0-0.5')

Lab Sample ID: 880-37421-16
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	70109	01/03/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70094	01/04/24 09:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/04/24 09:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			70153	01/04/24 03:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	70103	01/03/24 08:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/04/24 03:59	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	70074	01/02/24 16:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70195	01/05/24 17:02	CH	EET MID

Client Sample ID: H-17 (0-0.5')

Lab Sample ID: 880-37421-17
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	70109	01/03/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70094	01/04/24 09:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/04/24 09:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			70153	01/04/24 04:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	70103	01/03/24 08:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/04/24 04:19	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-17 (0-0.5')

Lab Sample ID: 880-37421-17
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	70074	01/02/24 16:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70195	01/05/24 17:08	CH	EET MID

Client Sample ID: H-18 (0-0.5')

Lab Sample ID: 880-37421-18
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	70109	01/03/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70094	01/04/24 10:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/04/24 10:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			70153	01/04/24 04:39	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	70103	01/03/24 08:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/04/24 04:39	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	70074	01/02/24 16:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70195	01/05/24 17:13	CH	EET MID

Client Sample ID: H-19 (0-0.5')

Lab Sample ID: 880-37421-19
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	70109	01/03/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70094	01/04/24 10:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/04/24 10:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			70153	01/04/24 04:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	70103	01/03/24 08:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/04/24 04:59	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	70074	01/02/24 16:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70195	01/05/24 17:18	CH	EET MID

Client Sample ID: H-20 (0-0.5')

Lab Sample ID: 880-37421-20
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	70109	01/03/24 09:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70094	01/04/24 10:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/04/24 10:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			70153	01/04/24 05:20	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	70103	01/03/24 08:21	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/04/24 05:20	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	70074	01/02/24 16:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70195	01/05/24 17:23	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-21 (0-0.5')

Lab Sample ID: 880-37421-21
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	70110	01/03/24 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70093	01/03/24 21:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/03/24 21:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			70153	01/03/24 18:06	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	70029	01/02/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/03/24 18:06	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	70074	01/02/24 16:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70195	01/05/24 17:28	CH	EET MID

Client Sample ID: H-22 (0-0.5')

Lab Sample ID: 880-37421-22
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	70110	01/03/24 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70093	01/03/24 22:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/03/24 22:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			70153	01/03/24 18:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	70029	01/02/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/03/24 18:33	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	70074	01/02/24 16:57	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70195	01/05/24 17:33	CH	EET MID

Client Sample ID: H-23 (0-0.5')

Lab Sample ID: 880-37421-23
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	70110	01/03/24 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70093	01/03/24 22:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/03/24 22:25	SM	EET MID
Total/NA	Analysis	8015 NM		1			70153	01/03/24 18:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	70029	01/02/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/03/24 18:58	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	70105	01/03/24 08:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70198	01/05/24 20:54	CH	EET MID

Client Sample ID: H-24 (0-0.5')

Lab Sample ID: 880-37421-24
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	70110	01/03/24 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70093	01/03/24 22:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/03/24 22:45	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Client Sample ID: H-24 (0-0.5')

Lab Sample ID: 880-37421-24
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			70153	01/03/24 19:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	70029	01/02/24 16:49	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70090	01/03/24 19:22	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70105	01/03/24 08:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70198	01/05/24 21:09	CH	EET MID

Client Sample ID: H-25 (0-0.5')

Lab Sample ID: 880-37421-25
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	70110	01/03/24 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70093	01/03/24 23:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/03/24 23:06	SM	EET MID
Total/NA	Analysis	8015 NM		1			70153	01/03/24 20:32	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	70106	01/03/24 08:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70085	01/03/24 20:32	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	70105	01/03/24 08:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70198	01/05/24 21:15	CH	EET MID

Client Sample ID: H-26 (0-0.5')

Lab Sample ID: 880-37421-26
Matrix: Solid
Date Collected: 12/29/23 00:00
Date Received: 01/02/24 16:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	70110	01/03/24 09:31	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	70093	01/03/24 23:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			70232	01/03/24 23:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			70153	01/03/24 21:41	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	70106	01/03/24 08:57	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	70085	01/03/24 21:41	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	70105	01/03/24 08:51	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	70198	01/05/24 21:20	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-37421-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-37421-1	H-1 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-2	H-2 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-3	H-3 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-4	H-4 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-5	H-5 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-6	H-6 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-7	H-7 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-8	H-8 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-9	H-9 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-10	H-10 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-11	H-11 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-12	H-12 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-13	H-13 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-14	H-14 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-15	H-15 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-16	H-16 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-17	H-17 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-18	H-18 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-19	H-19 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-20	H-20 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-21	H-21 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-22	H-22 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-23	H-23 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-24	H-24 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-25	H-25 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00
880-37421-26	H-26 (0-0.5')	Solid	12/29/23 00:00	01/02/24 16:00

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c° SOI

880-37421 Chain of Custody

1/8/2024

Project Manager	Clinton Merritt	Bill to: (if different)	Isaac Castro
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address.	990 Town and Country Blvd
City, State ZIP	Midland TX 79701	City State ZIP	Houston TX 77024
Phone	Email		icastro@marathonoil.com

Work Order Comments

Program UST/PST ☐ PRP ☐ rownfields ☐ RC ☐ perfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	Black River 4H	Turn Around	
Project Number	2224	☑ Routine	☐ Rush
Project Location	Eddy County, New Mexico	Due Date	5 Day TAT
Sampler's Name	CCM		
PO #:			

SAMPLE RECEIPT			
Temp Blank	Yes No	Wet Ice	Yes No
Received Intact:	Yes No	Thermometer ID	IR8
Cooler Custody Seals	Yes No N/A	Correction Factor	+.2
Sample Custody Seals	Yes No N/A	Temperature Reading	-1
Total Containers		Corrected Temperature	-10.8

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL HC; HNO_3 HN; H_2S0_4 H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0	Sample Comments
H-1 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X	
H-2 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X	
H-3 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X	
H-4 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X	
H-5 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X	
H-6 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X	
H-7 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X	
H-8 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X	
H-9 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X	
H-10 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X	

Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	1-2-24 1600		

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Received by OCD: 5/6/2024 4:05:37 PM

Released to Imaging: 5/7/2024 3:27:42 PM

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Work Order No: 37421

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Project Manager	Clinton Merritt	Bill to (if different)	Isaac Castro
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland TX 79701	City, State ZIP	Houston TX 77024
Phone		Email	icastro@marathonoil.com

Work Order Comments

Program. UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables. EDD ☐ ADaPT ☐ Other

Project Name	Black River 4H	Turn Around	
Project Number	2224	☑ Routine	☐ Rush
Project Location	Eddy County New Mexico	Due Date	5 Day TAT
Sampler's Name	CCM		
PO #:			

SAMPLE RECEIPT			
Temp Blank	Yes No	Wet Ice	Yes No
Received Intact:	Yes No	Thermometer ID	
Cooler Custody Seals	Yes No N/A	Correction Factor	
Sample Custody Seals	Yes No N/A	Temperature Reading	
Total Containers		Corrected Temperature	

Preservative Codes

None NO DI Water H_2O

Cool Cool MeOH Me

HCL HC HNO_3 HN

H_2S0_4 H_2 NaOH Na

H_3PO_4 HP

$NaHSO_4$ NABIS

$Na_2S_2O_3$ $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0	Sample Comments
H-11 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X	
H-12 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X	
H-13 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X	
H-14 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X	
H-15 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X	
H-16 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X	
H-17 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X	
H-18 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X	
H-19 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X	
H-20 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X	

Parameters

ANALYSIS REQUEST

Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	1-2-24 1600		

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Received by OCD: 5/6/2024 4:05:37 PM

Released to Imaging: 5/7/2024 3:27:42 PM

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Work Order No: Loc: 880 37421

1/8/2024

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Project Manager	Clinton Merritt	Bill to. (if different)	Isaac Castro
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address.	990 Town and Country Blvd
City, State ZIP	Midland TX 79701	City, State ZIP	Houston TX 77024
Phone	Email		icastro@marathonoil com

Work Order Comments

Program. UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Black River 4H	Turn Around	
Project Number	2224	☑ Routine	☐ Rush
Project Location	Eddy County New Mexico	Due Date	5 Day TAT
Sampler's Name	CCM		
PO #:			

SAMPLE RECEIPT			
Temp Blank	Yes No	Wet Ice	Yes No
Received Intact:	Yes No	Thermometer ID	
Cooler Custody Seals	Yes No N/A	Correction Factor	
Sample Custody Seals	Yes No N/A	Temperature Reading	
Total Containers		Corrected Temperature	

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0
H-21 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X
H-22 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X
H-23 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X
H-24 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X
H-25 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X
H-26 (0-0 5')	12/29/2023		X		Grab/	1		X	X	X

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2S0_4. H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$. $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Comments

Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	1-2-24 1600		

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Received by OCD: 5/6/2024 4:05:37 PM

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Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-37421-1
SDG Number: Eddy County, New Mexico

Login Number: 37421
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 2/5/2024 4:08:32 PM

JOB DESCRIPTION

Black River 4H
Eddy County, New Mexico

JOB NUMBER

880-38347-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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2/5/2024 4:08:32 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Carmona Resources
Project/Site: Black River 4H

Laboratory Job ID: 880-38347-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38347-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Black River 4H

Job ID: 880-38347-1

Job ID: 880-38347-1 Eurofins Midland

Job Narrative
880-38347-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/23/2024 3:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH-1 (0-1') (880-38347-1) and BH-1 (2') (880-38347-2).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71638 and analytical batch 880-71999 was outside the control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-1 (0-1') (880-38347-1) and (890-6007-A-1-E). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-71840 and analytical batch 880-71999 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71840 and analytical batch 880-71999 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-71643 and analytical batch 880-72300 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-1 (0-1') (880-38347-1), BH-1 (2') (880-38347-2), (880-38347-A-1-C MS) and (880-38347-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-71643 and analytical batch 880-72300 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38347-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-1 (0-1')

Lab Sample ID: 880-38347-1
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 03:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 03:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 03:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/29/24 13:46	02/01/24 03:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 03:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/29/24 13:46	02/01/24 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*63*	*S1-*	*70 - 130*	*01/29/24 13:46*	*02/01/24 03:50*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*01/29/24 13:46*	*02/01/24 03:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/01/24 03:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			02/04/24 10:41	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		01/25/24 18:20	02/04/24 10:41	1
Diesel Range Organics (Over C10-C28)	<50.1	U F1	50.1		mg/Kg		01/25/24 18:20	02/04/24 10:41	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/25/24 18:20	02/04/24 10:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*143*	*S1+*	*70 - 130*	*01/25/24 18:20*	*02/04/24 10:41*	*1*
o-Terphenyl	*125*		*70 - 130*	*01/25/24 18:20*	*02/04/24 10:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12.3**		5.02		mg/Kg			01/28/24 15:51	1

Client Sample ID: BH-1 (2')

Lab Sample ID: 880-38347-2
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 04:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 04:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 04:16	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/29/24 13:46	02/01/24 04:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 04:16	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/29/24 13:46	02/01/24 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*01/29/24 13:46*	*02/01/24 04:16*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*01/29/24 13:46*	*02/01/24 04:16*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38347-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-1 (2')

Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Lab Sample ID: 880-38347-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/01/24 04:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			02/04/24 11:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		01/25/24 18:20	02/04/24 11:45	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		01/25/24 18:20	02/04/24 11:45	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		01/25/24 18:20	02/04/24 11:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*135*	*S1+*	*70 - 130*	*01/25/24 18:20*	*02/04/24 11:45*	*1*
o-Terphenyl	*121*		*70 - 130*	*01/25/24 18:20*	*02/04/24 11:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31.7**		4.98		mg/Kg			01/28/24 16:12	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38347-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-38347-1	BH-1 (0-1')	63 S1-	94
880-38347-2	BH-1 (2')	115	92
890-6007-A-1-C MS	Matrix Spike	121	106
890-6007-A-1-D MSD	Matrix Spike Duplicate	112	119
LCS 880-71840/1-A	Lab Control Sample	114	90
LCSD 880-71840/2-A	Lab Control Sample Dup	99	76
MB 880-71638/5-A	Method Blank	62 S1-	90
MB 880-71840/5-A	Method Blank	60 S1-	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-38347-1	BH-1 (0-1')	143 S1+	125
880-38347-1 MS	BH-1 (0-1')	135 S1+	99
880-38347-1 MSD	BH-1 (0-1')	140 S1+	101
880-38347-2	BH-1 (2')	135 S1+	121
LCS 880-71643/2-A	Lab Control Sample	99	99
LCSD 880-71643/3-A	Lab Control Sample Dup	100	100
MB 880-71643/1-A	Method Blank	184 S1+	163 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38347-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71638/5-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71638

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/25/24 18:05	01/31/24 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*62*	*S1-*	*70 - 130*	*01/25/24 18:05*	*01/31/24 11:56*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/25/24 18:05*	*01/31/24 11:56*	*1*

Lab Sample ID: MB 880-71840/5-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/29/24 13:46	02/01/24 01:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*60*	*S1-*	*70 - 130*	*01/29/24 13:46*	*02/01/24 01:16*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/29/24 13:46*	*02/01/24 01:16*	*1*

Lab Sample ID: LCS 880-71840/1-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09006		mg/Kg		90	70 - 130
Toluene	0.100	0.09510		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.1017		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2105		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1021		mg/Kg		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 880-71840/2-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71840

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07503		mg/Kg		75	70 - 130	18	35

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38347-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-71840/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71999 — **Prep Batch: 71840**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.07644		mg/Kg		76	70 - 130	22	35
Ethylbenzene			0.100	0.08788		mg/Kg		88	70 - 130	15	35
m-Xylene & p-Xylene			0.200	0.1877		mg/Kg		94	70 - 130	11	35
o-Xylene			0.100	0.09988		mg/Kg		100	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*

Lab Sample ID: 890-6007-A-1-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71999 — **Prep Batch: 71840**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.08577		mg/Kg		86	70 - 130
Toluene	<0.00199	U	0.0996	0.1016		mg/Kg		101	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.09580		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.2115		mg/Kg		106	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1120		mg/Kg		112	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 890-6007-A-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 71999 — **Prep Batch: 71840**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.1092		mg/Kg		110	70 - 130	24	35
Toluene	<0.00199	U	0.0990	0.1134		mg/Kg		114	70 - 130	11	35
Ethylbenzene	<0.00199	U	0.0990	0.1280		mg/Kg		129	70 - 130	29	35
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.2696	F1	mg/Kg		136	70 - 130	24	35
o-Xylene	<0.00199	U	0.0990	0.1245		mg/Kg		126	70 - 130	11	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-71643/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 72300 — **Prep Batch: 71643**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38347-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-71643/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 72300 — **Prep Batch: 71643**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*184*	*S1+*	*70 - 130*	*01/25/24 18:19*	*02/04/24 08:12*	*1*
o-Terphenyl	*163*	*S1+*	*70 - 130*	*01/25/24 18:19*	*02/04/24 08:12*	*1*

Lab Sample ID: LCS 880-71643/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 72300 — **Prep Batch: 71643**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	940.8		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1233		mg/Kg		123	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: LCSD 880-71643/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 72300 — **Prep Batch: 71643**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1107		mg/Kg		111	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	1000	1050		mg/Kg		105	70 - 130	16	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: 880-38347-1 MS — **Client Sample ID: BH-1 (0-1')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 72300 — **Prep Batch: 71643**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1264		mg/Kg		122	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U F1	1010	1789	F1	mg/Kg		176	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*135*	*S1+*	*70 - 130*
o-Terphenyl	*99*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38347-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-38347-1 MSD — **Client Sample ID: BH-1 (0-1')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 72300 — **Prep Batch: 71643**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1329		mg/Kg		128	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.1	U F1	1010	1863	F1	mg/Kg		183	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*140*	*S1+*	*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71541/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71647

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/28/24 13:55	1

Lab Sample ID: LCS 880-71541/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	263.8		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-71541/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71647

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	264.6		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-38347-1 MS — **Client Sample ID: BH-1 (0-1')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71647

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	12.3		251	279.5		mg/Kg		106	90 - 110

Lab Sample ID: 880-38347-1 MSD — **Client Sample ID: BH-1 (0-1')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71647

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12.3		251	278.1		mg/Kg		106	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38347-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 71638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-71638/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 71840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38347-1	BH-1 (0-1')	Total/NA	Solid	5035	
880-38347-2	BH-1 (2')	Total/NA	Solid	5035	
MB 880-71840/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71840/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71840/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6007-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-6007-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 71999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38347-1	BH-1 (0-1')	Total/NA	Solid	8021B	71840
880-38347-2	BH-1 (2')	Total/NA	Solid	8021B	71840
MB 880-71638/5-A	Method Blank	Total/NA	Solid	8021B	71638
MB 880-71840/5-A	Method Blank	Total/NA	Solid	8021B	71840
LCS 880-71840/1-A	Lab Control Sample	Total/NA	Solid	8021B	71840
LCSD 880-71840/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71840
890-6007-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	71840
890-6007-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71840

Analysis Batch: 72119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38347-1	BH-1 (0-1')	Total/NA	Solid	Total BTEX	
880-38347-2	BH-1 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38347-1	BH-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-38347-2	BH-1 (2')	Total/NA	Solid	8015NM Prep	
MB 880-71643/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71643/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71643/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-38347-1 MS	BH-1 (0-1')	Total/NA	Solid	8015NM Prep	
880-38347-1 MSD	BH-1 (0-1')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 72300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38347-1	BH-1 (0-1')	Total/NA	Solid	8015B NM	71643
880-38347-2	BH-1 (2')	Total/NA	Solid	8015B NM	71643
MB 880-71643/1-A	Method Blank	Total/NA	Solid	8015B NM	71643
LCS 880-71643/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71643
LCSD 880-71643/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71643
880-38347-1 MS	BH-1 (0-1')	Total/NA	Solid	8015B NM	71643
880-38347-1 MSD	BH-1 (0-1')	Total/NA	Solid	8015B NM	71643

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38347-1
SDG: Eddy County, New Mexico

GC Semi VOA

Analysis Batch: 72400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38347-1	BH-1 (0-1')	Total/NA	Solid	8015 NM	
880-38347-2	BH-1 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38347-1	BH-1 (0-1')	Soluble	Solid	DI Leach	
880-38347-2	BH-1 (2')	Soluble	Solid	DI Leach	
MB 880-71541/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71541/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71541/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38347-1 MS	BH-1 (0-1')	Soluble	Solid	DI Leach	
880-38347-1 MSD	BH-1 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 71647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38347-1	BH-1 (0-1')	Soluble	Solid	300.0	71541
880-38347-2	BH-1 (2')	Soluble	Solid	300.0	71541
MB 880-71541/1-A	Method Blank	Soluble	Solid	300.0	71541
LCS 880-71541/2-A	Lab Control Sample	Soluble	Solid	300.0	71541
LCSD 880-71541/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71541
880-38347-1 MS	BH-1 (0-1')	Soluble	Solid	300.0	71541
880-38347-1 MSD	BH-1 (0-1')	Soluble	Solid	300.0	71541

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38347-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-1 (0-1')

Lab Sample ID: 880-38347-1
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	71840	01/29/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71999	02/01/24 03:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72119	02/01/24 03:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			72400	02/04/24 10:41	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	71643	01/25/24 18:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72300	02/04/24 10:41	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	71541	01/24/24 16:59	SA	EET MID
Soluble	Analysis	300.0		1			71647	01/28/24 15:51	CH	EET MID

Client Sample ID: BH-1 (2')

Lab Sample ID: 880-38347-2
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	71840	01/29/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71999	02/01/24 04:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72119	02/01/24 04:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			72400	02/04/24 11:45	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	71643	01/25/24 18:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72300	02/04/24 11:45	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	71541	01/24/24 16:59	SA	EET MID
Soluble	Analysis	300.0		1			71647	01/28/24 16:12	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38347-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38347-1
SDG: Eddy County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38347-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38347-1	BH-1 (0-1')	Solid	01/22/24 00:00	01/23/24 15:14
880-38347-2	BH-1 (2')	Solid	01/22/24 00:00	01/23/24 15:14

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Cra o sto y

880-38347 Chain of Custody

2/5/2024

Page ___1___ of ___1___

Project Manager	Clinton Merritt	Bill to (if different)	Isaac Castro
Company Name.	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland, TX 79701	City State ZIP	Houston TX 77024
Phone		Email	icastro@marathonoil com

Work Order Comments

Program UST/PST ☐ PRP ☐ rownfields ☐ RC ☐ perfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Black River 4H	Turn Around	
Project Number	2224	☑ Routine ☐ Rush	
Project Location	Eddy County, New Mexico	Due Date	5 Day TAT
Sampler's Name	CCM		
PO #:	CL.23 03716		

SAMPLE RECEIPT			
Temp Blank.	Yes (No)	Wet Ice	Yes No
Received Intact:	(Yes) No	Thermometer ID	IR8
Cooler Custody Seals	Yes No N/A	Correction Factor	+.20
Sample Custody Seals	Yes No N/A	Temperature Reading	4.0
Total Containers		Corrected Temperature	4.2

ANALYSIS REQUEST

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL HC; HNO_3 HN; H_2S0_4. H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; Na_2S_2O NaSO; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0	Sample Comments
BH-1 (0-1')	1/22/2024		X		Grab/	1		X	X	X	
BH-1 (2')	1/22/2024		X		Grab/	1		X	X	X	

Comments Email results to Mike Carmona mcarmona@carmonaresources com, Conner Moehring cmoehring@carmonaresources com, Clint Merritt MerrittC@carmonaresources com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
		Summer	1/23/24
	1-23-24		3:14

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Received by OCD: 5/6/2024 4:05:37 PM

Released to Imaging: 5/7/2024 3:27:42 PM

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-38347-1
SDG Number: Eddy County, New Mexico

Login Number: 38347
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

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JOB DESCRIPTION

Black River 4H
Eddy County, New Mexico

JOB NUMBER

880-38348-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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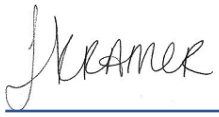
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Carmona Resources
Project/Site: Black River 4H

Laboratory Job ID: 880-38348-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38348-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Black River 4H

Job ID: 880-38348-1

Job ID: 880-38348-1 Eurofins Midland

Job Narrative
880-38348-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/23/2024 3:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH-2 (0-1') (880-38348-1) and BH-2 (2') (880-38348-2).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71638 and analytical batch 880-71999 was outside the control limits.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-71840 and analytical batch 880-71999 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71840 and analytical batch 880-71999 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-71643 and analytical batch 880-72300 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-2 (2') (880-38348-2), (880-38347-A-1-B), (880-38347-A-1-C MS) and (880-38347-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-71643 and analytical batch 880-72300 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38348-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-2 (0-1')

Lab Sample ID: 880-38348-1
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 07:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 07:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 07:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/29/24 13:46	02/01/24 07:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 07:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/29/24 13:46	02/01/24 07:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*01/29/24 13:46*	*02/01/24 07:16*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*01/29/24 13:46*	*02/01/24 07:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/01/24 07:16	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			02/04/24 12:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		01/25/24 18:20	02/04/24 12:06	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		01/25/24 18:20	02/04/24 12:06	1
OII Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		01/25/24 18:20	02/04/24 12:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*01/25/24 18:20*	*02/04/24 12:06*	*1*
o-Terphenyl	*107*		*70 - 130*	*01/25/24 18:20*	*02/04/24 12:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**65.0**		5.04		mg/Kg			01/28/24 16:19	1

Client Sample ID: BH-2 (2')

Lab Sample ID: 880-38348-2
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 07:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 07:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 07:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/29/24 13:46	02/01/24 07:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 07:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/29/24 13:46	02/01/24 07:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*01/29/24 13:46*	*02/01/24 07:43*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*01/29/24 13:46*	*02/01/24 07:43*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38348-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-2 (2')

Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Lab Sample ID: 880-38348-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/01/24 07:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/04/24 12:27	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/25/24 18:20	02/04/24 12:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/25/24 18:20	02/04/24 12:27	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/24 18:20	02/04/24 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*141*	*S1+*	*70 - 130*	*01/25/24 18:20*	*02/04/24 12:27*	*1*
o-Terphenyl	*123*		*70 - 130*	*01/25/24 18:20*	*02/04/24 12:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**40.2**		5.05		mg/Kg			01/28/24 16:39	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38348-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-38348-1	BH-2 (0-1')	100	97
880-38348-2	BH-2 (2')	96	85
890-6007-A-1-C MS	Matrix Spike	121	106
890-6007-A-1-D MSD	Matrix Spike Duplicate	112	119
LCS 880-71840/1-A	Lab Control Sample	114	90
LCSD 880-71840/2-A	Lab Control Sample Dup	99	76
MB 880-71638/5-A	Method Blank	62 S1-	90
MB 880-71840/5-A	Method Blank	60 S1-	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-38347-A-1-C MS	Matrix Spike	135 S1+	99
880-38347-A-1-D MSD	Matrix Spike Duplicate	140 S1+	101
880-38348-1	BH-2 (0-1')	123	107
880-38348-2	BH-2 (2')	141 S1+	123
LCS 880-71643/2-A	Lab Control Sample	99	99
LCSD 880-71643/3-A	Lab Control Sample Dup	100	100
MB 880-71643/1-A	Method Blank	184 S1+	163 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38348-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71638/5-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71638

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/25/24 18:05	01/31/24 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*62*	*S1-*	*70 - 130*	*01/25/24 18:05*	*01/31/24 11:56*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/25/24 18:05*	*01/31/24 11:56*	*1*

Lab Sample ID: MB 880-71840/5-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/29/24 13:46	02/01/24 01:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*60*	*S1-*	*70 - 130*	*01/29/24 13:46*	*02/01/24 01:16*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/29/24 13:46*	*02/01/24 01:16*	*1*

Lab Sample ID: LCS 880-71840/1-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09006		mg/Kg		90	70 - 130
Toluene	0.100	0.09510		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.1017		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2105		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1021		mg/Kg		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 880-71840/2-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71840

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07503		mg/Kg		75	70 - 130	18	35

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38348-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-71840/2-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71840

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.07644		mg/Kg		76	70 - 130	22	35
Ethylbenzene			0.100	0.08788		mg/Kg		88	70 - 130	15	35
m-Xylene & p-Xylene			0.200	0.1877		mg/Kg		94	70 - 130	11	35
o-Xylene			0.100	0.09988		mg/Kg		100	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*

Lab Sample ID: 890-6007-A-1-C MS
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71840

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.08577		mg/Kg		86	70 - 130
Toluene	<0.00199	U	0.0996	0.1016		mg/Kg		101	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.09580		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.2115		mg/Kg		106	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1120		mg/Kg		112	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 890-6007-A-1-D MSD
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 71840

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.1092		mg/Kg		110	70 - 130	24	35
Toluene	<0.00199	U	0.0990	0.1134		mg/Kg		114	70 - 130	11	35
Ethylbenzene	<0.00199	U	0.0990	0.1280		mg/Kg		129	70 - 130	29	35
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.2696	F1	mg/Kg		136	70 - 130	24	35
o-Xylene	<0.00199	U	0.0990	0.1245		mg/Kg		126	70 - 130	11	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-71643/1-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38348-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-71643/1-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*184*	*S1+*	*70 - 130*	*01/25/24 18:19*	*02/04/24 08:12*	*1*
o-Terphenyl	*163*	*S1+*	*70 - 130*	*01/25/24 18:19*	*02/04/24 08:12*	*1*

Lab Sample ID: LCS 880-71643/2-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71643

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	940.8		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1233		mg/Kg		123	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: LCSD 880-71643/3-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71643

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1107		mg/Kg		111	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	1000	1050		mg/Kg		105	70 - 130	16	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: 880-38347-A-1-C MS
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71643

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1264		mg/Kg		122	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U F1	1010	1789	F1	mg/Kg		176	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*135*	*S1+*	*70 - 130*
o-Terphenyl	*99*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38348-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-38347-A-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 72300 — **Prep Batch: 71643**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1329		mg/Kg		128	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.1	U F1	1010	1863	F1	mg/Kg		183	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*140*	*S1+*	*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71541/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71647

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/28/24 13:55	1

Lab Sample ID: LCS 880-71541/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	263.8		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-71541/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71647

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	264.6		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-38347-A-1-F MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71647

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	12.3		251	279.5		mg/Kg		106	90 - 110

Lab Sample ID: 880-38347-A-1-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71647

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12.3		251	278.1		mg/Kg		106	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38348-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 71638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-71638/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 71840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38348-1	BH-2 (0-1')	Total/NA	Solid	5035	
880-38348-2	BH-2 (2')	Total/NA	Solid	5035	
MB 880-71840/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71840/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71840/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6007-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-6007-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 71999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38348-1	BH-2 (0-1')	Total/NA	Solid	8021B	71840
880-38348-2	BH-2 (2')	Total/NA	Solid	8021B	71840
MB 880-71638/5-A	Method Blank	Total/NA	Solid	8021B	71638
MB 880-71840/5-A	Method Blank	Total/NA	Solid	8021B	71840
LCS 880-71840/1-A	Lab Control Sample	Total/NA	Solid	8021B	71840
LCSD 880-71840/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71840
890-6007-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	71840
890-6007-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71840

Analysis Batch: 72121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38348-1	BH-2 (0-1')	Total/NA	Solid	Total BTEX	
880-38348-2	BH-2 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38348-1	BH-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-38348-2	BH-2 (2')	Total/NA	Solid	8015NM Prep	
MB 880-71643/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71643/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71643/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-38347-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-38347-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 72300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38348-1	BH-2 (0-1')	Total/NA	Solid	8015B NM	71643
880-38348-2	BH-2 (2')	Total/NA	Solid	8015B NM	71643
MB 880-71643/1-A	Method Blank	Total/NA	Solid	8015B NM	71643
LCS 880-71643/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71643
LCSD 880-71643/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71643
880-38347-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	71643
880-38347-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71643

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38348-1
SDG: Eddy County, New Mexico

GC Semi VOA

Analysis Batch: 72401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38348-1	BH-2 (0-1')	Total/NA	Solid	8015 NM	
880-38348-2	BH-2 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38348-1	BH-2 (0-1')	Soluble	Solid	DI Leach	
880-38348-2	BH-2 (2')	Soluble	Solid	DI Leach	
MB 880-71541/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71541/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71541/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38347-A-1-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-38347-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 71647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38348-1	BH-2 (0-1')	Soluble	Solid	300.0	71541
880-38348-2	BH-2 (2')	Soluble	Solid	300.0	71541
MB 880-71541/1-A	Method Blank	Soluble	Solid	300.0	71541
LCS 880-71541/2-A	Lab Control Sample	Soluble	Solid	300.0	71541
LCSD 880-71541/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71541
880-38347-A-1-F MS	Matrix Spike	Soluble	Solid	300.0	71541
880-38347-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71541

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38348-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-2 (0-1')

Lab Sample ID: 880-38348-1
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	71840	01/29/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71999	02/01/24 07:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72121	02/01/24 07:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			72401	02/04/24 12:06	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	71643	01/25/24 18:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72300	02/04/24 12:06	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	71541	01/24/24 16:59	SA	EET MID
Soluble	Analysis	300.0		1			71647	01/28/24 16:19	CH	EET MID

Client Sample ID: BH-2 (2')

Lab Sample ID: 880-38348-2
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	71840	01/29/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71999	02/01/24 07:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72121	02/01/24 07:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			72401	02/04/24 12:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	71643	01/25/24 18:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72300	02/04/24 12:27	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	71541	01/24/24 16:59	SA	EET MID
Soluble	Analysis	300.0		1			71647	01/28/24 16:39	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38348-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38348-1
SDG: Eddy County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38348-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38348-1	BH-2 (0-1')	Solid	01/22/24 00:00	01/23/24 15:14
880-38348-2	BH-2 (2')	Solid	01/22/24 00:00	01/23/24 15:14

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2/5/2024

880-38348 Chain of Custody

Page 1 of 1

Project Manager	Clinton Merritt	Bill to (if different)	Isaac Castro
Company Name.	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland, TX 79701	City State ZIP	Houston TX 77024
Phone	Email	icastro@marathonoil.com	

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	Black River 4H	Turn Around	
Project Number	2224	☑ Routine	☐ Rush
Project Location	Eddy County New Mexico	Due Date	5 Day TAT
Sampler's Name	CCM		
PO #:	CL.23 03716		

SAMPLE RECEIPT			
Temp Blank.	Yes (No)	Wet Ice.	Yes No
Received Intact:	(Yes) No	Thermometer ID	FR5
Cooler Custody Seals	Yes No (N/A)	Correction Factor	+.20
Sample Custody Seals	Yes No N/A	Temperature Reading	4.0
Total Containers		Corrected Temperature	4.2

ANALYSIS REQUEST

Preservative Codes

None NO DI Water H_2O

Cool Cool MeOH Me

HCL HC HNO_3. HN

H_2S0_4. H_2 NaOH Na

H_3PO_4 HP

$NaHSO_4$ NABIS

$Na_2S_2O_3$ $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0	Sample Comments
BH-2 (0-1')	1/22/2024		X		Grab/	1		X	X	X	
BH-2 (2')	1/22/2024		X		Grab/	1		X	X	X	

Parameters

Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
		Jasmine	1/23/24
	1-23-24	White	3.14

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Received by OCD: 5/6/2024 4:05:37 PM

Released to Imaging: 5/7/2024 3:27:42 PM

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-38348-1
SDG Number: Eddy County, New Mexico

Login Number: 38348
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 2/5/2024 4:10:03 PM

JOB DESCRIPTION

Black River 4H
Eddy County, New Mexico

JOB NUMBER

880-38349-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 5/7/2024 8:27:42 AM

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
2/5/2024 4:10:03 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Carmona Resources
Project/Site: Black River 4H

Laboratory Job ID: 880-38349-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38349-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Black River 4H

Job ID: 880-38349-1

Job ID: 880-38349-1 Eurofins Midland

Job Narrative
880-38349-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/23/2024 3:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH-3 (0-1') (880-38349-1) and BH-3 (2') (880-38349-2).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71638 and analytical batch 880-71999 was outside the control limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH-3 (2') (880-38349-2) and (890-6007-A-1-E). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-71840 and analytical batch 880-71999 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71840 and analytical batch 880-71999 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-71643 and analytical batch 880-72300 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-3 (0-1') (880-38349-1), (880-38347-A-1-B), (880-38347-A-1-C MS) and (880-38347-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-71643 and analytical batch 880-72300 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-71541 and analytical batch 880-71647 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Case Narrative

Client: Carmona Resources
Project: Black River 4H

Job ID: 880-38349-1

Job ID: 880-38349-1 (Continued) Eurofins Midland

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38349-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-3 (0-1')

Lab Sample ID: 880-38349-1
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/29/24 13:46	02/01/24 08:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/29/24 13:46	02/01/24 08:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/29/24 13:46	02/01/24 08:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/29/24 13:46	02/01/24 08:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/29/24 13:46	02/01/24 08:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/29/24 13:46	02/01/24 08:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*01/29/24 13:46*	*02/01/24 08:10*	*1*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*	*01/29/24 13:46*	*02/01/24 08:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/01/24 08:10	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/04/24 12:48	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/25/24 18:20	02/04/24 12:48	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/25/24 18:20	02/04/24 12:48	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/25/24 18:20	02/04/24 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*142*	*S1+*	*70 - 130*	*01/25/24 18:20*	*02/04/24 12:48*	*1*
o-Terphenyl	*124*		*70 - 130*	*01/25/24 18:20*	*02/04/24 12:48*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1990**		25.2		mg/Kg			01/28/24 16:46	5

Client Sample ID: BH-3 (2')

Lab Sample ID: 880-38349-2
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 08:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 08:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 08:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/29/24 13:46	02/01/24 08:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 08:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/29/24 13:46	02/01/24 08:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*147*	*S1+*	*70 - 130*	*01/29/24 13:46*	*02/01/24 08:36*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*01/29/24 13:46*	*02/01/24 08:36*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38349-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-3 (2')

Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Lab Sample ID: 880-38349-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/01/24 08:36	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			02/04/24 13:09	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/25/24 18:20	02/04/24 13:09	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/25/24 18:20	02/04/24 13:09	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/25/24 18:20	02/04/24 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*01/25/24 18:20*	*02/04/24 13:09*	*1*
o-Terphenyl	*105*		*70 - 130*	*01/25/24 18:20*	*02/04/24 13:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**85.5**		5.00		mg/Kg			01/28/24 16:53	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38349-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-38349-1	BH-3 (0-1')	129	123
880-38349-2	BH-3 (2')	147 S1+	112
890-6007-A-1-C MS	Matrix Spike	121	106
890-6007-A-1-D MSD	Matrix Spike Duplicate	112	119
LCS 880-71840/1-A	Lab Control Sample	114	90
LCSD 880-71840/2-A	Lab Control Sample Dup	99	76
MB 880-71638/5-A	Method Blank	62 S1-	90
MB 880-71840/5-A	Method Blank	60 S1-	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-38347-A-1-C MS	Matrix Spike	135 S1+	99
880-38347-A-1-D MSD	Matrix Spike Duplicate	140 S1+	101
880-38349-1	BH-3 (0-1')	142 S1+	124
880-38349-2	BH-3 (2')	119	105
LCS 880-71643/2-A	Lab Control Sample	99	99
LCSD 880-71643/3-A	Lab Control Sample Dup	100	100
MB 880-71643/1-A	Method Blank	184 S1+	163 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38349-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71638/5-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71638

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/25/24 18:05	01/31/24 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*62*	*S1-*	*70 - 130*	*01/25/24 18:05*	*01/31/24 11:56*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/25/24 18:05*	*01/31/24 11:56*	*1*

Lab Sample ID: MB 880-71840/5-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/29/24 13:46	02/01/24 01:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*60*	*S1-*	*70 - 130*	*01/29/24 13:46*	*02/01/24 01:16*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/29/24 13:46*	*02/01/24 01:16*	*1*

Lab Sample ID: LCS 880-71840/1-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09006		mg/Kg		90	70 - 130
Toluene	0.100	0.09510		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.1017		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2105		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1021		mg/Kg		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 880-71840/2-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71840

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07503		mg/Kg		75	70 - 130	18	35

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38349-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-71840/2-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71840

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.07644		mg/Kg		76	70 - 130	22	35
Ethylbenzene			0.100	0.08788		mg/Kg		88	70 - 130	15	35
m-Xylene & p-Xylene			0.200	0.1877		mg/Kg		94	70 - 130	11	35
o-Xylene			0.100	0.09988		mg/Kg		100	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*

Lab Sample ID: 890-6007-A-1-C MS
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71840

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.08577		mg/Kg		86	70 - 130
Toluene	<0.00199	U	0.0996	0.1016		mg/Kg		101	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.09580		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.2115		mg/Kg		106	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1120		mg/Kg		112	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 890-6007-A-1-D MSD
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 71840

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.1092		mg/Kg		110	70 - 130	24	35
Toluene	<0.00199	U	0.0990	0.1134		mg/Kg		114	70 - 130	11	35
Ethylbenzene	<0.00199	U	0.0990	0.1280		mg/Kg		129	70 - 130	29	35
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.2696	F1	mg/Kg		136	70 - 130	24	35
o-Xylene	<0.00199	U	0.0990	0.1245		mg/Kg		126	70 - 130	11	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-71643/1-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38349-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-71643/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 72300 — **Prep Batch: 71643**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*184*	*S1+*	*70 - 130*	*01/25/24 18:19*	*02/04/24 08:12*	*1*
o-Terphenyl	*163*	*S1+*	*70 - 130*	*01/25/24 18:19*	*02/04/24 08:12*	*1*

Lab Sample ID: LCS 880-71643/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 72300 — **Prep Batch: 71643**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	940.8		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1233		mg/Kg		123	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: LCSD 880-71643/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 72300 — **Prep Batch: 71643**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1107		mg/Kg		111	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	1000	1050		mg/Kg		105	70 - 130	16	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: 880-38347-A-1-C MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 72300 — **Prep Batch: 71643**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1264		mg/Kg		122	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U F1	1010	1789	F1	mg/Kg		176	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*135*	*S1+*	*70 - 130*
o-Terphenyl	*99*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38349-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-38347-A-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 72300 — **Prep Batch: 71643**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1329		mg/Kg		128	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.1	U F1	1010	1863	F1	mg/Kg		183	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*140*	*S1+*	*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71541/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71647

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/28/24 13:55	1

Lab Sample ID: LCS 880-71541/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71647

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	263.8		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-71541/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71647

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	264.6		mg/Kg		106	90 - 110	0	20

Lab Sample ID: 880-38341-A-4-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71647

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2390	F1	1260	3888	F1	mg/Kg		119	90 - 110

Lab Sample ID: 880-38341-A-4-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71647

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2390	F1	1260	3914	F1	mg/Kg		121	90 - 110	1	20

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38349-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-38347-A-1-F MS
Matrix: Solid
Analysis Batch: 71647

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	12.3		251	279.5		mg/Kg		106	90 - 110		

Lab Sample ID: 880-38347-A-1-G MSD
Matrix: Solid
Analysis Batch: 71647

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	12.3		251	278.1		mg/Kg		106	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38349-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 71638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-71638/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 71840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38349-1	BH-3 (0-1')	Total/NA	Solid	5035	
880-38349-2	BH-3 (2')	Total/NA	Solid	5035	
MB 880-71840/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71840/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71840/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6007-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-6007-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 71999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38349-1	BH-3 (0-1')	Total/NA	Solid	8021B	71840
880-38349-2	BH-3 (2')	Total/NA	Solid	8021B	71840
MB 880-71638/5-A	Method Blank	Total/NA	Solid	8021B	71638
MB 880-71840/5-A	Method Blank	Total/NA	Solid	8021B	71840
LCS 880-71840/1-A	Lab Control Sample	Total/NA	Solid	8021B	71840
LCSD 880-71840/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71840
890-6007-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	71840
890-6007-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71840

Analysis Batch: 72122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38349-1	BH-3 (0-1')	Total/NA	Solid	Total BTEX	
880-38349-2	BH-3 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38349-1	BH-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-38349-2	BH-3 (2')	Total/NA	Solid	8015NM Prep	
MB 880-71643/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71643/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71643/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-38347-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-38347-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 72300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38349-1	BH-3 (0-1')	Total/NA	Solid	8015B NM	71643
880-38349-2	BH-3 (2')	Total/NA	Solid	8015B NM	71643
MB 880-71643/1-A	Method Blank	Total/NA	Solid	8015B NM	71643
LCS 880-71643/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71643
LCSD 880-71643/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71643
880-38347-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	71643
880-38347-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71643

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38349-1
SDG: Eddy County, New Mexico

GC Semi VOA

Analysis Batch: 72402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38349-1	BH-3 (0-1')	Total/NA	Solid	8015 NM	
880-38349-2	BH-3 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38349-1	BH-3 (0-1')	Soluble	Solid	DI Leach	
880-38349-2	BH-3 (2')	Soluble	Solid	DI Leach	
MB 880-71541/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71541/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71541/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38341-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-38341-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-38347-A-1-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-38347-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 71647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38349-1	BH-3 (0-1')	Soluble	Solid	300.0	71541
880-38349-2	BH-3 (2')	Soluble	Solid	300.0	71541
MB 880-71541/1-A	Method Blank	Soluble	Solid	300.0	71541
LCS 880-71541/2-A	Lab Control Sample	Soluble	Solid	300.0	71541
LCSD 880-71541/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71541
880-38341-A-4-B MS	Matrix Spike	Soluble	Solid	300.0	71541
880-38341-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71541
880-38347-A-1-F MS	Matrix Spike	Soluble	Solid	300.0	71541
880-38347-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71541

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38349-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-3 (0-1')

Lab Sample ID: 880-38349-1
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	71840	01/29/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71999	02/01/24 08:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72122	02/01/24 08:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			72402	02/04/24 12:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	71643	01/25/24 18:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72300	02/04/24 12:48	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	71541	01/24/24 16:59	SA	EET MID
Soluble	Analysis	300.0		5			71647	01/28/24 16:46	CH	EET MID

Client Sample ID: BH-3 (2')

Lab Sample ID: 880-38349-2
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	71840	01/29/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71999	02/01/24 08:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72122	02/01/24 08:36	SM	EET MID
Total/NA	Analysis	8015 NM		1			72402	02/04/24 13:09	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	71643	01/25/24 18:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72300	02/04/24 13:09	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	71541	01/24/24 16:59	SA	EET MID
Soluble	Analysis	300.0		1			71647	01/28/24 16:53	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38349-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38349-1
SDG: Eddy County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38349-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38349-1	BH-3 (0-1')	Solid	01/22/24 00:00	01/23/24 15:14
880-38349-2	BH-3 (2')	Solid	01/22/24 00:00	01/23/24 15:14

Released to Imaging: 5/7/2024 3:27:42 PM
Received by OCD: 5/6/2024 4:05:37 PM

880-38349 Chain of Custody

Project Manager	Clinton Merritt	Bill to. (if different)	Isaac Castro
Company Name:	Carmona Resources	Company Name	Marathon Oil Corporation
Address.	310 W Wall St Ste 500	Address.	990 Town and Country Blvd
City, State ZIP	Midland TX 79701	City, State ZIP	Houston TX 77024
Phone	Email	icastro@marathonoil com	

Work Order Comments

Program UST/PST ☐ PRP ☐ rownfields ☐ RC ☐ perfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	Black River 4H	Turn Around	
Project Number	2224	☑ Routine ☐ Rush	
Project Location	Eddy County New Mexico	Due Date	5 Day TAT
Sampler's Name	CCM		
PO #:	CL 23 03716		

SAMPLE RECEIPT				
Temp Blank	Yes (No)	Wet Ice	Yes No	
Received Intact:	(Yes) No	Thermometer ID	IR8	
Cooler Custody Seals	Yes No (N/A)	Correction Factor	+.2	
Sample Custody Seals	Yes No (N/A)	Temperature Reading	4.0	
Total Containers		Corrected Temperature	4.2	

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL HC; HNO_3 HN; H_2S0_4 H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0	Sample Comments
BH-3 (0-1')	1/22/2024		X		Grab/	1		X	X	X	
BH-3 (2')	1/22/2024		X		Grab/	1		X	X	X	

Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources com, Clint Merritt MerrittC@carmonaresources com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
			1123/24
	1-23-24	Jasmine White	
			3.14

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-38349-1
SDG Number: Eddy County, New Mexico

Login Number: 38349
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 2/5/2024 4:10:19 PM

JOB DESCRIPTION

Black River 4H
Eddy County, New Mexico

JOB NUMBER

880-38350-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 5/7/2024 8:27:42 PM

my EOL

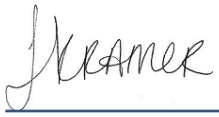
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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2/5/2024 4:10:19 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Carmona Resources
Project/Site: Black River 4H

Laboratory Job ID: 880-38350-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38350-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Black River 4H

Job ID: 880-38350-1

Job ID: 880-38350-1 Eurofins Midland

Job Narrative
880-38350-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/23/2024 3:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH-4 (0-1') (880-38350-1) and BH-4 (2') (880-38350-2).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71638 and analytical batch 880-71999 was outside the control limits.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-71840 and analytical batch 880-71999 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71840 and analytical batch 880-71999 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-71643 and analytical batch 880-72300 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-4 (0-1') (880-38350-1), (880-38347-A-1-B), (880-38347-A-1-C MS) and (880-38347-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-71643 and analytical batch 880-72300 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-71544 and analytical batch 880-71648 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38350-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-4 (0-1')

Lab Sample ID: 880-38350-1
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 09:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 09:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 09:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/29/24 13:46	02/01/24 09:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 09:02	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/29/24 13:46	02/01/24 09:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*	*01/29/24 13:46*	*02/01/24 09:02*	*1*
1,4-Difluorobenzene (Surr)	*74*		*70 - 130*	*01/29/24 13:46*	*02/01/24 09:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/01/24 09:02	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/04/24 13:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/25/24 18:20	02/04/24 13:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/25/24 18:20	02/04/24 13:30	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/24 18:20	02/04/24 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*139*	*S1+*	*70 - 130*	*01/25/24 18:20*	*02/04/24 13:30*	*1*
o-Terphenyl	*122*		*70 - 130*	*01/25/24 18:20*	*02/04/24 13:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2610**	**F1**	24.9		mg/Kg			01/28/24 18:16	5

Client Sample ID: BH-4 (2')

Lab Sample ID: 880-38350-2
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 09:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 09:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 09:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/29/24 13:46	02/01/24 09:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 09:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/29/24 13:46	02/01/24 09:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*01/29/24 13:46*	*02/01/24 09:28*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*01/29/24 13:46*	*02/01/24 09:28*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38350-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-4 (2')

Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Lab Sample ID: 880-38350-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/01/24 09:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			02/04/24 13:51	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		01/25/24 18:20	02/04/24 13:51	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		01/25/24 18:20	02/04/24 13:51	1
OII Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/25/24 18:20	02/04/24 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*01/25/24 18:20*	*02/04/24 13:51*	*1*
o-Terphenyl	*114*		*70 - 130*	*01/25/24 18:20*	*02/04/24 13:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42.2**		5.04		mg/Kg			01/28/24 18:36	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38350-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-38350-1	BH-4 (0-1')	73	74
880-38350-2	BH-4 (2')	105	118
890-6007-A-1-C MS	Matrix Spike	121	106
890-6007-A-1-D MSD	Matrix Spike Duplicate	112	119
LCS 880-71840/1-A	Lab Control Sample	114	90
LCSD 880-71840/2-A	Lab Control Sample Dup	99	76
MB 880-71638/5-A	Method Blank	62 S1-	90
MB 880-71840/5-A	Method Blank	60 S1-	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-38347-A-1-C MS	Matrix Spike	135 S1+	99
880-38347-A-1-D MSD	Matrix Spike Duplicate	140 S1+	101
880-38350-1	BH-4 (0-1')	139 S1+	122
880-38350-2	BH-4 (2')	128	114
LCS 880-71643/2-A	Lab Control Sample	99	99
LCSD 880-71643/3-A	Lab Control Sample Dup	100	100
MB 880-71643/1-A	Method Blank	184 S1+	163 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38350-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71638/5-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71638

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/25/24 18:05	01/31/24 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*62*	*S1-*	*70 - 130*	*01/25/24 18:05*	*01/31/24 11:56*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/25/24 18:05*	*01/31/24 11:56*	*1*

Lab Sample ID: MB 880-71840/5-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/29/24 13:46	02/01/24 01:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*60*	*S1-*	*70 - 130*	*01/29/24 13:46*	*02/01/24 01:16*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/29/24 13:46*	*02/01/24 01:16*	*1*

Lab Sample ID: LCS 880-71840/1-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09006		mg/Kg		90	70 - 130
Toluene	0.100	0.09510		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.1017		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2105		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1021		mg/Kg		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 880-71840/2-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71840

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07503		mg/Kg		75	70 - 130	18	35

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38350-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-71840/2-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71840

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.07644		mg/Kg		76	70 - 130	22	35
Ethylbenzene			0.100	0.08788		mg/Kg		88	70 - 130	15	35
m-Xylene & p-Xylene			0.200	0.1877		mg/Kg		94	70 - 130	11	35
o-Xylene			0.100	0.09988		mg/Kg		100	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*

Lab Sample ID: 890-6007-A-1-C MS
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71840

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.08577		mg/Kg		86	70 - 130
Toluene	<0.00199	U	0.0996	0.1016		mg/Kg		101	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.09580		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.2115		mg/Kg		106	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1120		mg/Kg		112	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 890-6007-A-1-D MSD
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 71840

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.1092		mg/Kg		110	70 - 130	24	35
Toluene	<0.00199	U	0.0990	0.1134		mg/Kg		114	70 - 130	11	35
Ethylbenzene	<0.00199	U	0.0990	0.1280		mg/Kg		129	70 - 130	29	35
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.2696	F1	mg/Kg		136	70 - 130	24	35
o-Xylene	<0.00199	U	0.0990	0.1245		mg/Kg		126	70 - 130	11	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-71643/1-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38350-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-71643/1-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*184*	*S1+*	*70 - 130*	*01/25/24 18:19*	*02/04/24 08:12*	*1*
o-Terphenyl	*163*	*S1+*	*70 - 130*	*01/25/24 18:19*	*02/04/24 08:12*	*1*

Lab Sample ID: LCS 880-71643/2-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71643

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	940.8		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1233		mg/Kg		123	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: LCSD 880-71643/3-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71643

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1107		mg/Kg		111	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	1000	1050		mg/Kg		105	70 - 130	16	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: 880-38347-A-1-C MS
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71643

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1264		mg/Kg		122	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U F1	1010	1789	F1	mg/Kg		176	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*135*	*S1+*	*70 - 130*
o-Terphenyl	*99*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38350-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-38347-A-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 72300 — **Prep Batch: 71643**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1329		mg/Kg		128	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.1	U F1	1010	1863	F1	mg/Kg		183	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*140*	*S1+*	*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71544/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71648

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/28/24 17:55	1

Lab Sample ID: LCS 880-71544/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71648

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	272.1		mg/Kg		109	90 - 110

Lab Sample ID: LCSD 880-71544/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71648

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	271.1		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-38350-1 MS — **Client Sample ID: BH-4 (0-1')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71648

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	2610	F1	1250	4029	F1	mg/Kg		114	90 - 110

Lab Sample ID: 880-38350-1 MSD — **Client Sample ID: BH-4 (0-1')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71648

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2610	F1	1250	4024	F1	mg/Kg		114	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38350-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 71638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-71638/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 71840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38350-1	BH-4 (0-1')	Total/NA	Solid	5035	
880-38350-2	BH-4 (2')	Total/NA	Solid	5035	
MB 880-71840/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71840/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71840/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6007-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-6007-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 71999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38350-1	BH-4 (0-1')	Total/NA	Solid	8021B	71840
880-38350-2	BH-4 (2')	Total/NA	Solid	8021B	71840
MB 880-71638/5-A	Method Blank	Total/NA	Solid	8021B	71638
MB 880-71840/5-A	Method Blank	Total/NA	Solid	8021B	71840
LCS 880-71840/1-A	Lab Control Sample	Total/NA	Solid	8021B	71840
LCSD 880-71840/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71840
890-6007-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	71840
890-6007-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71840

Analysis Batch: 72123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38350-1	BH-4 (0-1')	Total/NA	Solid	Total BTEX	
880-38350-2	BH-4 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38350-1	BH-4 (0-1')	Total/NA	Solid	8015NM Prep	
880-38350-2	BH-4 (2')	Total/NA	Solid	8015NM Prep	
MB 880-71643/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71643/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71643/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-38347-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-38347-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 72300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38350-1	BH-4 (0-1')	Total/NA	Solid	8015B NM	71643
880-38350-2	BH-4 (2')	Total/NA	Solid	8015B NM	71643
MB 880-71643/1-A	Method Blank	Total/NA	Solid	8015B NM	71643
LCS 880-71643/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71643
LCSD 880-71643/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71643
880-38347-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	71643
880-38347-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71643

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38350-1
SDG: Eddy County, New Mexico

GC Semi VOA

Analysis Batch: 72403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38350-1	BH-4 (0-1')	Total/NA	Solid	8015 NM	
880-38350-2	BH-4 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38350-1	BH-4 (0-1')	Soluble	Solid	DI Leach	
880-38350-2	BH-4 (2')	Soluble	Solid	DI Leach	
MB 880-71544/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71544/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71544/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38350-1 MS	BH-4 (0-1')	Soluble	Solid	DI Leach	
880-38350-1 MSD	BH-4 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 71648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38350-1	BH-4 (0-1')	Soluble	Solid	300.0	71544
880-38350-2	BH-4 (2')	Soluble	Solid	300.0	71544
MB 880-71544/1-A	Method Blank	Soluble	Solid	300.0	71544
LCS 880-71544/2-A	Lab Control Sample	Soluble	Solid	300.0	71544
LCSD 880-71544/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71544
880-38350-1 MS	BH-4 (0-1')	Soluble	Solid	300.0	71544
880-38350-1 MSD	BH-4 (0-1')	Soluble	Solid	300.0	71544

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38350-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-4 (0-1')

Lab Sample ID: 880-38350-1
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	71840	01/29/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71999	02/01/24 09:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72123	02/01/24 09:02	SM	EET MID
Total/NA	Analysis	8015 NM		1			72403	02/04/24 13:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	71643	01/25/24 18:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72300	02/04/24 13:30	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	71544	01/24/24 17:33	SA	EET MID
Soluble	Analysis	300.0		5			71648	01/28/24 18:16	CH	EET MID

Client Sample ID: BH-4 (2')

Lab Sample ID: 880-38350-2
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	71840	01/29/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71999	02/01/24 09:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72123	02/01/24 09:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			72403	02/04/24 13:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	71643	01/25/24 18:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72300	02/04/24 13:51	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	71544	01/24/24 17:33	SA	EET MID
Soluble	Analysis	300.0		1			71648	01/28/24 18:36	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38350-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38350-1
SDG: Eddy County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38350-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38350-1	BH-4 (0-1')	Solid	01/22/24 00:00	01/23/24 15:14
880-38350-2	BH-4 (2')	Solid	01/22/24 00:00	01/23/24 15:14

Released to Imaging: 5/7/2024 3:27:42 PM
Received by OCD: 5/6/2024 4:05:37 PM

880-38350 Chain of Custody

Project Manager	Clinton Merritt	Bill to: (if different)	Isaac Castro
Company Name:	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland TX 79701	City, State ZIP	Houston, TX 77024
Phone	Email	icastro@marathonoil com	

Work Order Comments

Program. UST/PST ☐ PRP ☐ rownfields ☐ RC ☐ perfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other

Project Name.	Black River 4H	Turn Around	
Project Number	2224	☑ Routine ☐ Rush	
Project Location	Eddy County, New Mexico	Due Date	5 Day TAT
Sampler's Name	CCM		
PO #:	CL 23 03716		

SAMPLE RECEIPT				
Temp Blank	Yes No	Wet Ice	Yes No	
Received Intact:	Yes No	Thermometer ID		EV8
Cooler Custody Seals	Yes No N/A	Correction Factor		+.20
Sample Custody Seals	Yes No N/A	Temperature Reading		4.3
Total Containers		Corrected Temperature		4.5

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0
BH-4 (0-1')	1/22/2024		X		Grab/	1		X	X	X
BH-4 (2')	1/22/2024		X		Grab/	1		X	X	X

Preservative Codes

None NO DI Water H_2O

Cool Cool MeOH Me

HCL HC HNO_3 HN

H_2S0_4. H_2 NaOH Na

H_3PO_4 HP

$NaHSO_4$ NABIS

$Na_2S_2O_3$ $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Comments

Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources com, Clint Merritt MerrittC@carmonaresources com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
		Jazmine	1/23/24
	1-23-24		3:14

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-38350-1
SDG Number: Eddy County, New Mexico

Login Number: 38350
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 2/5/2024 4:10:58 PM

JOB DESCRIPTION

Black River 4H
Eddy County, New Mexico

JOB NUMBER

880-38351-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 5/7/2024 8:27:42 PM

my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
2/5/2024 4:10:58 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Carmona Resources
Project/Site: Black River 4H

Laboratory Job ID: 880-38351-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38351-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Black River 4H

Job ID: 880-38351-1

Job ID: 880-38351-1 Eurofins Midland

Job Narrative
880-38351-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/23/2024 3:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH-5 (0-1') (880-38351-1) and BH-5 (2') (880-38351-2).

GC VOA
Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-71638 and 880-71840 and analytical batch 880-71999 was outside the control limits.

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-71840 and analytical batch 880-71999 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-71643 and analytical batch 880-72300 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-5 (0-1') (880-38351-1), (880-38347-A-1-B), (880-38347-A-1-C MS) and (880-38347-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-71643 and analytical batch 880-72300 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38351-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-5 (0-1')

Lab Sample ID: 880-38351-1
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 09:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 09:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 09:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/29/24 13:46	02/01/24 09:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 09:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/29/24 13:46	02/01/24 09:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*01/29/24 13:46*	*02/01/24 09:54*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*01/29/24 13:46*	*02/01/24 09:54*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/01/24 09:54	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			02/04/24 14:12	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		01/25/24 18:20	02/04/24 14:12	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		01/25/24 18:20	02/04/24 14:12	1
OII Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		01/25/24 18:20	02/04/24 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*01/25/24 18:20*	*02/04/24 14:12*	*1*
o-Terphenyl	*120*		*70 - 130*	*01/25/24 18:20*	*02/04/24 14:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**85.6**		5.02		mg/Kg			01/28/24 18:43	1

Client Sample ID: BH-5 (2')

Lab Sample ID: 880-38351-2
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 10:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 10:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 10:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/29/24 13:46	02/01/24 10:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 10:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/29/24 13:46	02/01/24 10:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*	*01/29/24 13:46*	*02/01/24 10:21*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*01/29/24 13:46*	*02/01/24 10:21*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38351-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-5 (2')

Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Lab Sample ID: 880-38351-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/01/24 10:21	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			02/04/24 14:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		01/25/24 18:20	02/04/24 14:33	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		01/25/24 18:20	02/04/24 14:33	1
OII Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/25/24 18:20	02/04/24 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*01/25/24 18:20*	*02/04/24 14:33*	*1*
o-Terphenyl	*106*		*70 - 130*	*01/25/24 18:20*	*02/04/24 14:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24.0**		5.02		mg/Kg			01/28/24 18:50	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38351-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-38351-1	BH-5 (0-1')	129	110
880-38351-2	BH-5 (2')	86	71
890-6007-A-1-C MS	Matrix Spike	121	106
890-6007-A-1-D MSD	Matrix Spike Duplicate	112	119
LCS 880-71840/1-A	Lab Control Sample	114	90
LCSD 880-71840/2-A	Lab Control Sample Dup	99	76
MB 880-71638/5-A	Method Blank	62 S1-	90
MB 880-71840/5-A	Method Blank	60 S1-	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-38347-A-1-C MS	Matrix Spike	135 S1+	99
880-38347-A-1-D MSD	Matrix Spike Duplicate	140 S1+	101
880-38351-1	BH-5 (0-1')	136 S1+	120
880-38351-2	BH-5 (2')	122	106
LCS 880-71643/2-A	Lab Control Sample	99	99
LCSD 880-71643/3-A	Lab Control Sample Dup	100	100
MB 880-71643/1-A	Method Blank	184 S1+	163 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38351-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71638/5-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71638

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/25/24 18:05	01/31/24 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*62*	*S1-*	*70 - 130*	*01/25/24 18:05*	*01/31/24 11:56*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/25/24 18:05*	*01/31/24 11:56*	*1*

Lab Sample ID: MB 880-71840/5-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/29/24 13:46	02/01/24 01:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*60*	*S1-*	*70 - 130*	*01/29/24 13:46*	*02/01/24 01:16*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/29/24 13:46*	*02/01/24 01:16*	*1*

Lab Sample ID: LCS 880-71840/1-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71840

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09006		mg/Kg		90	70 - 130
Toluene	0.100	0.09510		mg/Kg		95	70 - 130
Ethylbenzene	0.100	0.1017		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2105		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1021		mg/Kg		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 880-71840/2-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71840

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07503		mg/Kg		75	70 - 130	18	35

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38351-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-71840/2-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71840

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.07644		mg/Kg		76	70 - 130	22	35
Ethylbenzene			0.100	0.08788		mg/Kg		88	70 - 130	15	35
m-Xylene & p-Xylene			0.200	0.1877		mg/Kg		94	70 - 130	11	35
o-Xylene			0.100	0.09988		mg/Kg		100	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*

Lab Sample ID: 890-6007-A-1-C MS
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71840

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.08577		mg/Kg		86	70 - 130
Toluene	<0.00199	U	0.0996	0.1016		mg/Kg		101	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.09580		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.2115		mg/Kg		106	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1120		mg/Kg		112	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 890-6007-A-1-D MSD
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 71840

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.1092		mg/Kg		110	70 - 130	24	35
Toluene	<0.00199	U	0.0990	0.1134		mg/Kg		114	70 - 130	11	35
Ethylbenzene	<0.00199	U	0.0990	0.1280		mg/Kg		129	70 - 130	29	35
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.2696	F1	mg/Kg		136	70 - 130	24	35
o-Xylene	<0.00199	U	0.0990	0.1245		mg/Kg		126	70 - 130	11	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-71643/1-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38351-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-71643/1-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*184*	*S1+*	*70 - 130*	*01/25/24 18:19*	*02/04/24 08:12*	*1*
o-Terphenyl	*163*	*S1+*	*70 - 130*	*01/25/24 18:19*	*02/04/24 08:12*	*1*

Lab Sample ID: LCS 880-71643/2-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71643

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	940.8		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1233		mg/Kg		123	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: LCSD 880-71643/3-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71643

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1107		mg/Kg		111	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	1000	1050		mg/Kg		105	70 - 130	16	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: 880-38347-A-1-C MS
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71643

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1264		mg/Kg		122	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U F1	1010	1789	F1	mg/Kg		176	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*135*	*S1+*	*70 - 130*
o-Terphenyl	*99*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38351-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-38347-A-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 72300 — **Prep Batch: 71643**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1329		mg/Kg		128	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.1	U F1	1010	1863	F1	mg/Kg		183	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*140*	*S1+*	*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71544/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71648

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/28/24 17:55	1

Lab Sample ID: LCS 880-71544/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71648

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	272.1		mg/Kg		109	90 - 110

Lab Sample ID: LCSD 880-71544/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71648

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	271.1		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-38355-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71648

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	154		252	423.5		mg/Kg		107	90 - 110

Lab Sample ID: 880-38355-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71648

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	154		252	420.6		mg/Kg		106	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38351-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 71638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-71638/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 71840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38351-1	BH-5 (0-1')	Total/NA	Solid	5035	
880-38351-2	BH-5 (2')	Total/NA	Solid	5035	
MB 880-71840/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71840/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71840/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6007-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-6007-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 71999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38351-1	BH-5 (0-1')	Total/NA	Solid	8021B	71840
880-38351-2	BH-5 (2')	Total/NA	Solid	8021B	71840
MB 880-71638/5-A	Method Blank	Total/NA	Solid	8021B	71638
MB 880-71840/5-A	Method Blank	Total/NA	Solid	8021B	71840
LCS 880-71840/1-A	Lab Control Sample	Total/NA	Solid	8021B	71840
LCSD 880-71840/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71840
890-6007-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	71840
890-6007-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71840

Analysis Batch: 72124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38351-1	BH-5 (0-1')	Total/NA	Solid	Total BTEX	
880-38351-2	BH-5 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38351-1	BH-5 (0-1')	Total/NA	Solid	8015NM Prep	
880-38351-2	BH-5 (2')	Total/NA	Solid	8015NM Prep	
MB 880-71643/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71643/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71643/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-38347-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-38347-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 72300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38351-1	BH-5 (0-1')	Total/NA	Solid	8015B NM	71643
880-38351-2	BH-5 (2')	Total/NA	Solid	8015B NM	71643
MB 880-71643/1-A	Method Blank	Total/NA	Solid	8015B NM	71643
LCS 880-71643/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71643
LCSD 880-71643/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71643
880-38347-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	71643
880-38347-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71643

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38351-1
SDG: Eddy County, New Mexico

GC Semi VOA

Analysis Batch: 72404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38351-1	BH-5 (0-1')	Total/NA	Solid	8015 NM	
880-38351-2	BH-5 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38351-1	BH-5 (0-1')	Soluble	Solid	DI Leach	
880-38351-2	BH-5 (2')	Soluble	Solid	DI Leach	
MB 880-71544/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71544/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71544/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38355-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-38355-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 71648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38351-1	BH-5 (0-1')	Soluble	Solid	300.0	71544
880-38351-2	BH-5 (2')	Soluble	Solid	300.0	71544
MB 880-71544/1-A	Method Blank	Soluble	Solid	300.0	71544
LCS 880-71544/2-A	Lab Control Sample	Soluble	Solid	300.0	71544
LCSD 880-71544/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71544
880-38355-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	71544
880-38355-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71544

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38351-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-5 (0-1')

Lab Sample ID: 880-38351-1
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	71840	01/29/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71999	02/01/24 09:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72124	02/01/24 09:54	SM	EET MID
Total/NA	Analysis	8015 NM		1			72404	02/04/24 14:12	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	71643	01/25/24 18:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72300	02/04/24 14:12	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	71544	01/24/24 17:33	SA	EET MID
Soluble	Analysis	300.0		1			71648	01/28/24 18:43	CH	EET MID

Client Sample ID: BH-5 (2')

Lab Sample ID: 880-38351-2
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	71840	01/29/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71999	02/01/24 10:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72124	02/01/24 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			72404	02/04/24 14:33	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	71643	01/25/24 18:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72300	02/04/24 14:33	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	71544	01/24/24 17:33	SA	EET MID
Soluble	Analysis	300.0		1			71648	01/28/24 18:50	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38351-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38351-1
SDG: Eddy County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38351-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38351-1	BH-5 (0-1')	Solid	01/22/24 00:00	01/23/24 15:14
880-38351-2	BH-5 (2')	Solid	01/22/24 00:00	01/23/24 15:14

Released to Imaging: 5/7/2024 3:27:42 PM
Received by OCD: 5/6/2024 4:05:37 PM

880-38351 Chain of Custody

Project Manager	Clinton Merritt	Bill to (if different)	Isaac Castro
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland TX 79701	City, State ZIP	Houston TX 77024
Phone		Email	icastro@marathonoil com

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	Black River 4H	Turn Around	
Project Number	2224	☑ Routine ☐ Rush	
Project Location	Eddy County, New Mexico	Due Date	5 Day TAT
Sampler's Name	CCM		
PO #:	CL.23 03716		

SAMPLE RECEIPT				
Temp Blank	Yes (No)	Wet Ice	Yes No	
Received Intact	(Yes) No	Thermometer ID	Dr8	
Cooler Custody Seals	Yes No N/A	Correction Factor	1.20	
Sample Custody Seals	Yes No (N/A)	Temperature Reading	4.0	
Total Containers		Corrected Temperature	4.2	

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL HC; HNO_3 HN; H_2SO_4 H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

ANALYSIS REQUEST

Parameters: BTEX 8021B; TPH 8015M (GRO + DRO + MRO); Chloride 300 0

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0	Sample Comments
BH-5 (0-1')	1/22/2024		X		Grab/	1	X	X	X	
BH-5 (2')	1/22/2024		X		Grab/	1	X	X	X	

Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources com, Clint Merritt MerrittC@carmonaresources com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	1-23-24	Jazmine	1/23/24
			3:14

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-38351-1
SDG Number: Eddy County, New Mexico

Login Number: 38351
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 2/5/2024 4:11:42 PM

JOB DESCRIPTION

Black River 4H
Eddy County, New Mexico

JOB NUMBER

880-38352-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 5/7/2024 8:27:42 PM

my EOL

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

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Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Carmona Resources
Project/Site: Black River 4H

Laboratory Job ID: 880-38352-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38352-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Black River 4H

Job ID: 880-38352-1

Job ID: 880-38352-1 Eurofins Midland

Job Narrative
880-38352-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/23/2024 3:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH-6 (0-1') (880-38352-1) and BH-6 (2') (880-38352-2).

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: BH-6 (2') (880-38352-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-71643 and analytical batch 880-72300 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-6 (0-1') (880-38352-1), (880-38347-A-1-B), (880-38347-A-1-C MS) and (880-38347-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-71643 and analytical batch 880-72300 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38352-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-6 (0-1')

Lab Sample ID: 880-38352-1
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/29/24 13:46	02/01/24 10:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/29/24 13:46	02/01/24 10:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/29/24 13:46	02/01/24 10:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/29/24 13:46	02/01/24 10:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/29/24 13:46	02/01/24 10:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/29/24 13:46	02/01/24 10:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*01/29/24 13:46*	*02/01/24 10:47*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*	*01/29/24 13:46*	*02/01/24 10:47*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/01/24 10:47	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			02/04/24 15:15	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		01/25/24 18:20	02/04/24 15:15	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		01/25/24 18:20	02/04/24 15:15	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/25/24 18:20	02/04/24 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*01/25/24 18:20*	*02/04/24 15:15*	*1*
o-Terphenyl	*120*		*70 - 130*	*01/25/24 18:20*	*02/04/24 15:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**192**		5.00		mg/Kg			01/28/24 18:57	1

Client Sample ID: BH-6 (2')

Lab Sample ID: 880-38352-2
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 11:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 11:13	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 11:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/29/24 13:46	02/01/24 11:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:46	02/01/24 11:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/29/24 13:46	02/01/24 11:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*173*	*S1+*	*70 - 130*	*01/29/24 13:46*	*02/01/24 11:13*	*1*
1,4-Difluorobenzene (Surr)	*128*		*70 - 130*	*01/29/24 13:46*	*02/01/24 11:13*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38352-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-6 (2')

Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Lab Sample ID: 880-38352-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/01/24 11:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			02/04/24 15:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		01/25/24 18:20	02/04/24 15:36	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		01/25/24 18:20	02/04/24 15:36	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/25/24 18:20	02/04/24 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*01/25/24 18:20*	*02/04/24 15:36*	*1*
o-Terphenyl	*113*		*70 - 130*	*01/25/24 18:20*	*02/04/24 15:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22.9**		4.97		mg/Kg			01/28/24 19:18	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38352-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-38352-1	BH-6 (0-1')	127	78
880-38352-2	BH-6 (2')	173 S1+	128
890-6007-A-1-C MS	Matrix Spike	121	106
890-6007-A-1-D MSD	Matrix Spike Duplicate	112	119
LCS 880-71840/1-A	Lab Control Sample	114	90
LCSD 880-71840/2-A	Lab Control Sample Dup	99	76
MB 880-71638/5-A	Method Blank	62 S1-	90
MB 880-71840/5-A	Method Blank	60 S1-	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-38347-A-1-C MS	Matrix Spike	135 S1+	99
880-38347-A-1-D MSD	Matrix Spike Duplicate	140 S1+	101
880-38352-1	BH-6 (0-1')	136 S1+	120
880-38352-2	BH-6 (2')	128	113
LCS 880-71643/2-A	Lab Control Sample	99	99
LCSD 880-71643/3-A	Lab Control Sample Dup	100	100
MB 880-71643/1-A	Method Blank	184 S1+	163 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38352-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71638/5-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71638

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/24 18:05	01/31/24 11:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/25/24 18:05	01/31/24 11:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*62*	*S1-*	*70 - 130*	*01/25/24 18:05*	*01/31/24 11:56*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/25/24 18:05*	*01/31/24 11:56*	*1*

Lab Sample ID: MB 880-71840/5-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71840

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:46	02/01/24 01:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/29/24 13:46	02/01/24 01:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*60*	*S1-*	*70 - 130*	*01/29/24 13:46*	*02/01/24 01:16*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*01/29/24 13:46*	*02/01/24 01:16*	*1*

Lab Sample ID: LCS 880-71840/1-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71840

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09006		mg/Kg		90	70 - 130		
Toluene			0.100	0.09510		mg/Kg		95	70 - 130		
Ethylbenzene			0.100	0.1017		mg/Kg		102	70 - 130		
m-Xylene & p-Xylene			0.200	0.2105		mg/Kg		105	70 - 130		
o-Xylene			0.100	0.1021		mg/Kg		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: LCSD 880-71840/2-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71840

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07503		mg/Kg		75	70 - 130	18	35

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38352-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-71840/2-A
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71840

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.07644		mg/Kg		76	70 - 130	22	35
Ethylbenzene			0.100	0.08788		mg/Kg		88	70 - 130	15	35
m-Xylene & p-Xylene			0.200	0.1877		mg/Kg		94	70 - 130	11	35
o-Xylene			0.100	0.09988		mg/Kg		100	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*

Lab Sample ID: 890-6007-A-1-C MS
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71840

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.08577		mg/Kg		86	70 - 130
Toluene	<0.00199	U	0.0996	0.1016		mg/Kg		101	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.09580		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.199	0.2115		mg/Kg		106	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1120		mg/Kg		112	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 890-6007-A-1-D MSD
Matrix: Solid
Analysis Batch: 71999

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 71840

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.1092		mg/Kg		110	70 - 130	24	35
Toluene	<0.00199	U	0.0990	0.1134		mg/Kg		114	70 - 130	11	35
Ethylbenzene	<0.00199	U	0.0990	0.1280		mg/Kg		129	70 - 130	29	35
m-Xylene & p-Xylene	<0.00398	U F1	0.198	0.2696	F1	mg/Kg		136	70 - 130	24	35
o-Xylene	<0.00199	U	0.0990	0.1245		mg/Kg		126	70 - 130	11	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*119*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-71643/1-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38352-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-71643/1-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*184*	*S1+*	*70 - 130*	*01/25/24 18:19*	*02/04/24 08:12*	*1*
o-Terphenyl	*163*	*S1+*	*70 - 130*	*01/25/24 18:19*	*02/04/24 08:12*	*1*

Lab Sample ID: LCS 880-71643/2-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71643

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	940.8		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1233		mg/Kg		123	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*99*		*70 - 130*
o-Terphenyl	*99*		*70 - 130*

Lab Sample ID: LCSD 880-71643/3-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71643

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1107		mg/Kg		111	70 - 130	16	20
Diesel Range Organics (Over C10-C28)	1000	1050		mg/Kg		105	70 - 130	16	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*100*		*70 - 130*

Lab Sample ID: 880-38347-A-1-C MS
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71643

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1264		mg/Kg		122	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U F1	1010	1789	F1	mg/Kg		176	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*135*	*S1+*	*70 - 130*
o-Terphenyl	*99*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38352-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-38347-A-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 72300 — **Prep Batch: 71643**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1329		mg/Kg		128	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.1	U F1	1010	1863	F1	mg/Kg		183	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*140*	*S1+*	*70 - 130*
o-Terphenyl	*101*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71544/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71648

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/28/24 17:55	1

Lab Sample ID: LCS 880-71544/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71648

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	272.1		mg/Kg		109	90 - 110

Lab Sample ID: LCSD 880-71544/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71648

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	271.1		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-38355-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71648

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	154		252	423.5		mg/Kg		107	90 - 110

Lab Sample ID: 880-38355-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 71648

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	154		252	420.6		mg/Kg		106	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38352-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 71638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-71638/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 71840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38352-1	BH-6 (0-1')	Total/NA	Solid	5035	
880-38352-2	BH-6 (2')	Total/NA	Solid	5035	
MB 880-71840/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71840/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71840/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6007-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-6007-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 71999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38352-1	BH-6 (0-1')	Total/NA	Solid	8021B	71840
880-38352-2	BH-6 (2')	Total/NA	Solid	8021B	71840
MB 880-71638/5-A	Method Blank	Total/NA	Solid	8021B	71638
MB 880-71840/5-A	Method Blank	Total/NA	Solid	8021B	71840
LCS 880-71840/1-A	Lab Control Sample	Total/NA	Solid	8021B	71840
LCSD 880-71840/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71840
890-6007-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	71840
890-6007-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71840

Analysis Batch: 72165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38352-1	BH-6 (0-1')	Total/NA	Solid	Total BTEX	
880-38352-2	BH-6 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38352-1	BH-6 (0-1')	Total/NA	Solid	8015NM Prep	
880-38352-2	BH-6 (2')	Total/NA	Solid	8015NM Prep	
MB 880-71643/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71643/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71643/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-38347-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-38347-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 72300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38352-1	BH-6 (0-1')	Total/NA	Solid	8015B NM	71643
880-38352-2	BH-6 (2')	Total/NA	Solid	8015B NM	71643
MB 880-71643/1-A	Method Blank	Total/NA	Solid	8015B NM	71643
LCS 880-71643/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71643
LCSD 880-71643/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71643
880-38347-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	71643
880-38347-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71643

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38352-1
SDG: Eddy County, New Mexico

GC Semi VOA

Analysis Batch: 72405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38352-1	BH-6 (0-1')	Total/NA	Solid	8015 NM	
880-38352-2	BH-6 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38352-1	BH-6 (0-1')	Soluble	Solid	DI Leach	
880-38352-2	BH-6 (2')	Soluble	Solid	DI Leach	
MB 880-71544/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71544/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71544/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38355-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-38355-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 71648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38352-1	BH-6 (0-1')	Soluble	Solid	300.0	71544
880-38352-2	BH-6 (2')	Soluble	Solid	300.0	71544
MB 880-71544/1-A	Method Blank	Soluble	Solid	300.0	71544
LCS 880-71544/2-A	Lab Control Sample	Soluble	Solid	300.0	71544
LCSD 880-71544/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71544
880-38355-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	71544
880-38355-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71544

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38352-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-6 (0-1')

Lab Sample ID: 880-38352-1
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	71840	01/29/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71999	02/01/24 10:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72165	02/01/24 10:47	SM	EET MID
Total/NA	Analysis	8015 NM		1			72405	02/04/24 15:15	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	71643	01/25/24 18:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72300	02/04/24 15:15	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	71544	01/24/24 17:33	SA	EET MID
Soluble	Analysis	300.0		1			71648	01/28/24 18:57	CH	EET MID

Client Sample ID: BH-6 (2')

Lab Sample ID: 880-38352-2
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	71840	01/29/24 13:46	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	71999	02/01/24 11:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72165	02/01/24 11:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			72405	02/04/24 15:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	71643	01/25/24 18:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72300	02/04/24 15:36	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	71544	01/24/24 17:33	SA	EET MID
Soluble	Analysis	300.0		1			71648	01/28/24 19:18	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38352-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38352-1
SDG: Eddy County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38352-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38352-1	BH-6 (0-1')	Solid	01/22/24 00:00	01/23/24 15:14
880-38352-2	BH-6 (2')	Solid	01/22/24 00:00	01/23/24 15:14

Released to Imaging: 5/7/2024 3:27:42 PM
Received by OCD: 5/6/2024 4:05:37 PM

880-38352 Chain of Custody

Page 1 of 1

Project Manager	Clinton Merritt	Bill to (if different)	Isaac Castro
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland, TX 79701	City, State ZIP	Houston TX 77024
Phone		Email	icastro@marathonoil.com

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other:

Project Name	Black River 4H	Turn Around	
Project Number	2224	☑ Routine ☐ Rush	
Project Location	Eddy County, New Mexico	Due Date	5 Day TAT
Sampler's Name	CCM		
PO #:	CL.23 03716		

SAMPLE RECEIPT			
Temp Blank	Yes No	Wet Ice	Yes No
Received Intact:	Yes No	Thermometer ID	IR8
Cooler Custody Seals	Yes No N/A	Correction Factor	+.20
Sample Custody Seals	Yes No N/A	Temperature Reading	4.0
Total Containers		Corrected Temperature	4.2

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL HC; HNO_3 HN; H_2S0_4 H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; Na_2S_2O $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0	Sample Comments
BH-6 (0-1')	1/22/2024		X		Grab/	1		X	X	X	
BH-6 (2')	1/22/2024		X		Grab/	1		X	X	X	

Comments Email results to Mike Carmona mcarmona@carmonaresources com, Conner Moehring cmoehring@carmonaresources com, Clint Merritt MerrittC@carmonaresources com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	1-23-24	Jazmine	1/23/24
			8:14

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-38352-1
SDG Number: Eddy County, New Mexico

Login Number: 38352
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 2/5/2024 4:12:13 PM

JOB DESCRIPTION

Black River 4H
Eddy County, New Mexico

JOB NUMBER

880-38353-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 5/7/2024 8:27:42 PM

my EOL

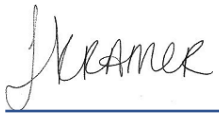
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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2/5/2024 4:12:13 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Carmona Resources
Project/Site: Black River 4H

Laboratory Job ID: 880-38353-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38353-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Black River 4H

Job ID: 880-38353-1

Job ID: 880-38353-1 Eurofins Midland

Job Narrative
880-38353-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/23/2024 3:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH-7 (0-1') (880-38353-1) and BH-7 (2') (880-38353-2).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-71643 and analytical batch 880-72300 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (880-38347-A-1-B), (880-38347-A-1-C MS) and (880-38347-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-71643 and analytical batch 880-72300 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38353-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-7 (0-1')

Lab Sample ID: 880-38353-1
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:58	02/01/24 16:50	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:58	02/01/24 16:50	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:58	02/01/24 16:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/29/24 13:58	02/01/24 16:50	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:58	02/01/24 16:50	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/29/24 13:58	02/01/24 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*01/29/24 13:58*	*02/01/24 16:50*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/29/24 13:58*	*02/01/24 16:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/01/24 16:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/04/24 15:58	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/25/24 18:20	02/04/24 15:58	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/25/24 18:20	02/04/24 15:58	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/25/24 18:20	02/04/24 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*01/25/24 18:20*	*02/04/24 15:58*	*1*
o-Terphenyl	*102*		*70 - 130*	*01/25/24 18:20*	*02/04/24 15:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**626**		4.95		mg/Kg			01/28/24 19:24	1

Client Sample ID: BH-7 (2')

Lab Sample ID: 880-38353-2
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 17:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 17:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 17:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/29/24 13:58	02/01/24 17:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 17:10	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/29/24 13:58	02/01/24 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*01/29/24 13:58*	*02/01/24 17:10*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*01/29/24 13:58*	*02/01/24 17:10*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38353-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-7 (2')

Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Lab Sample ID: 880-38353-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/01/24 17:10	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			02/04/24 16:19	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		01/25/24 18:20	02/04/24 16:19	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		01/25/24 18:20	02/04/24 16:19	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		01/25/24 18:20	02/04/24 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*01/25/24 18:20*	*02/04/24 16:19*	*1*
o-Terphenyl	*98*		*70 - 130*	*01/25/24 18:20*	*02/04/24 16:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**86.8**		4.98		mg/Kg			01/28/24 19:31	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38353-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-38353-1	BH-7 (0-1')	94	101
880-38353-1 MS	BH-7 (0-1')	109	94
880-38353-1 MSD	BH-7 (0-1')	112	96
880-38353-2	BH-7 (2')	110	107
LCS 880-71843/1-A	Lab Control Sample	112	96
LCSD 880-71843/2-A	Lab Control Sample Dup	101	97
MB 880-71843/5-A	Method Blank	117	115

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-38347-A-1-C MS	Matrix Spike	135 S1+	99
880-38347-A-1-D MSD	Matrix Spike Duplicate	140 S1+	101
880-38353-1	BH-7 (0-1')	115	102
880-38353-2	BH-7 (2')	112	98
LCS 880-71643/2-A	Lab Control Sample	99	99
LCSD 880-71643/3-A	Lab Control Sample Dup	100	100
MB 880-71643/1-A	Method Blank	184 S1+	163 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38353-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71843/5-A
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71843

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 16:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 16:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 16:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/24 13:58	02/01/24 16:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 16:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/29/24 13:58	02/01/24 16:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*01/29/24 13:58*	*02/01/24 16:21*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*01/29/24 13:58*	*02/01/24 16:21*	*1*

Lab Sample ID: LCS 880-71843/1-A
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71843

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09684		mg/Kg		97	70 - 130
Toluene	0.100	0.09342		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.1142		mg/Kg		114	70 - 130
m-Xylene & p-Xylene	0.200	0.2129		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1031		mg/Kg		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-71843/2-A
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71843

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09836		mg/Kg		98	70 - 130	2	35
Toluene	0.100	0.09655		mg/Kg		97	70 - 130	3	35
Ethylbenzene	0.100	0.1086		mg/Kg		109	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2034		mg/Kg		102	70 - 130	5	35
o-Xylene	0.100	0.09915		mg/Kg		99	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-38353-1 MS
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: BH-7 (0-1')
Prep Type: Total/NA
Prep Batch: 71843

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.09287		mg/Kg		93	70 - 130
Toluene	<0.00199	U	0.0996	0.08872		mg/Kg		89	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38353-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-38353-1 MS
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: BH-7 (0-1')
Prep Type: Total/NA
Prep Batch: 71843

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.09896		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1935		mg/Kg		97	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09458		mg/Kg		94	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-38353-1 MSD
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: BH-7 (0-1')
Prep Type: Total/NA
Prep Batch: 71843

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.08130		mg/Kg		82	70 - 130	13	35
Toluene	<0.00199	U	0.0990	0.07698		mg/Kg		78	70 - 130	14	35
Ethylbenzene	<0.00199	U	0.0990	0.08944		mg/Kg		90	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1752		mg/Kg		88	70 - 130	10	35
o-Xylene	<0.00199	U	0.0990	0.08580		mg/Kg		86	70 - 130	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-71643/1-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*184*	*S1+*	*70 - 130*	*01/25/24 18:19*	*02/04/24 08:12*	*1*
o-Terphenyl	*163*	*S1+*	*70 - 130*	*01/25/24 18:19*	*02/04/24 08:12*	*1*

Lab Sample ID: LCS 880-71643/2-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71643

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	940.8		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1233		mg/Kg		123	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38353-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-71643/2-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71643

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: LCSD 880-71643/3-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71643

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1107		mg/Kg		111	70 - 130	16	20
Diesel Range Organics (Over C10-C28)			1000	1050		mg/Kg		105	70 - 130	16	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 880-38347-A-1-C MS
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71643

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1264		mg/Kg		122	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.1	U F1	1010	1789	F1	mg/Kg		176	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	135	S1+	70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 880-38347-A-1-D MSD
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 71643

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1329		mg/Kg		128	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.1	U F1	1010	1863	F1	mg/Kg		183	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	140	S1+	70 - 130
o-Terphenyl	101		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38353-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71544/1-A
Matrix: Solid
Analysis Batch: 71648

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/28/24 17:55	1

Lab Sample ID: LCS 880-71544/2-A
Matrix: Solid
Analysis Batch: 71648

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	272.1		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-71544/3-A
Matrix: Solid
Analysis Batch: 71648

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	271.1		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-38355-A-1-B MS
Matrix: Solid
Analysis Batch: 71648

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	154		252	423.5		mg/Kg		107	90 - 110		

Lab Sample ID: 880-38355-A-1-C MSD
Matrix: Solid
Analysis Batch: 71648

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	154		252	420.6		mg/Kg		106	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38353-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 71843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38353-1	BH-7 (0-1')	Total/NA	Solid	5035	
880-38353-2	BH-7 (2')	Total/NA	Solid	5035	
MB 880-71843/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71843/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71843/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-38353-1 MS	BH-7 (0-1')	Total/NA	Solid	5035	
880-38353-1 MSD	BH-7 (0-1')	Total/NA	Solid	5035	

Analysis Batch: 72144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38353-1	BH-7 (0-1')	Total/NA	Solid	8021B	71843
880-38353-2	BH-7 (2')	Total/NA	Solid	8021B	71843
MB 880-71843/5-A	Method Blank	Total/NA	Solid	8021B	71843
LCS 880-71843/1-A	Lab Control Sample	Total/NA	Solid	8021B	71843
LCSD 880-71843/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71843
880-38353-1 MS	BH-7 (0-1')	Total/NA	Solid	8021B	71843
880-38353-1 MSD	BH-7 (0-1')	Total/NA	Solid	8021B	71843

Analysis Batch: 72214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38353-1	BH-7 (0-1')	Total/NA	Solid	Total BTEX	
880-38353-2	BH-7 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38353-1	BH-7 (0-1')	Total/NA	Solid	8015NM Prep	
880-38353-2	BH-7 (2')	Total/NA	Solid	8015NM Prep	
MB 880-71643/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71643/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71643/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-38347-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-38347-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 72300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38353-1	BH-7 (0-1')	Total/NA	Solid	8015B NM	71643
880-38353-2	BH-7 (2')	Total/NA	Solid	8015B NM	71643
MB 880-71643/1-A	Method Blank	Total/NA	Solid	8015B NM	71643
LCS 880-71643/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71643
LCSD 880-71643/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71643
880-38347-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	71643
880-38347-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71643

Analysis Batch: 72406

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38353-1	BH-7 (0-1')	Total/NA	Solid	8015 NM	
880-38353-2	BH-7 (2')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38353-1
SDG: Eddy County, New Mexico

HPLC/IC

Leach Batch: 71544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38353-1	BH-7 (0-1')	Soluble	Solid	DI Leach	
880-38353-2	BH-7 (2')	Soluble	Solid	DI Leach	
MB 880-71544/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71544/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71544/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38355-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-38355-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 71648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38353-1	BH-7 (0-1')	Soluble	Solid	300.0	71544
880-38353-2	BH-7 (2')	Soluble	Solid	300.0	71544
MB 880-71544/1-A	Method Blank	Soluble	Solid	300.0	71544
LCS 880-71544/2-A	Lab Control Sample	Soluble	Solid	300.0	71544
LCSD 880-71544/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71544
880-38355-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	71544
880-38355-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71544

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38353-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-7 (0-1')

Lab Sample ID: 880-38353-1
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	71843	01/29/24 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72144	02/01/24 16:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72214	02/01/24 16:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			72406	02/04/24 15:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	71643	01/25/24 18:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72300	02/04/24 15:58	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	71544	01/24/24 17:33	SA	EET MID
Soluble	Analysis	300.0		1			71648	01/28/24 19:24	CH	EET MID

Client Sample ID: BH-7 (2')

Lab Sample ID: 880-38353-2
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	71843	01/29/24 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72144	02/01/24 17:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72214	02/01/24 17:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			72406	02/04/24 16:19	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	71643	01/25/24 18:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72300	02/04/24 16:19	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	71544	01/24/24 17:33	SA	EET MID
Soluble	Analysis	300.0		1			71648	01/28/24 19:31	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38353-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38353-1
SDG: Eddy County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38353-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38353-1	BH-7 (0-1')	Solid	01/22/24 00:00	01/23/24 15:14
880-38353-2	BH-7 (2')	Solid	01/22/24 00:00	01/23/24 15:14

Released to Imaging: 5/7/2024 3:27:42 PM
Received by OCD: 5/6/2024 4:05:37 PM

880-38353 Chain of Custody

Project Manager	Clinton Merritt	Bill to: (if different)	Isaac Castro
Company Name.	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland, TX 79701	City, State ZIP	Houston TX 77024
Phone	Email	icastro@marathonoil.com	

Work Order Comments

Program. UST/PST ☐ PRP ☐ rownfields ☐ RC ☐ perfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Black River 4H	Turn Around	
Project Number	2224	☑ Routine ☐ Rush	
Project Location	Eddy County New Mexico	Due Date	5 Day TAT
Sampler's Name	CCM		
PO #:	CL.23 03716		

SAMPLE RECEIPT				
Temp Blank	Yes (Yes) No	Yes (No)	Wet Ice	Yes No
Received Intact:	Yes No	Thermometer ID		T18
Cooler Custody Seals	Yes No N/A	Correction Factor		+.20
Sample Custody Seals	Yes No (N/A)	Temperature Reading		4.0
Total Containers		Corrected Temperature		4.2

ANALYSIS REQUEST

Preservative Codes

None NO DI Water H_2O

Cool Cool MeOH Me

HCL HC HNO_3 HN

H_2SO_4 H_2 NaOH Na

H_3PO_4 HP

$NaHSO_4$ NABIS

$Na_2S_2O_3$ $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0	Sample Comments
BH-7 (0-1')	1/22/2024		X		Grab/	1	X	X	X	
BH-7 (2')	1/22/2024		X		Grab/	1	X	X	X	

Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources com, Clint Merritt MerrittC@carmonaresources com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
		Jazmin	1123/24
	1-23-24		3:14

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-38353-1
SDG Number: Eddy County, New Mexico

Login Number: 38353
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 2/5/2024 4:12:23 PM

JOB DESCRIPTION

Black River 4H
Eddy County, New Mexico

JOB NUMBER

880-38354-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 5/7/2024 8:27:42 PM

my EOL

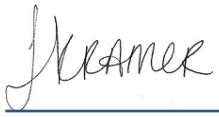
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
2/5/2024 4:12:23 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Carmona Resources
Project/Site: Black River 4H

Laboratory Job ID: 880-38354-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38354-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Black River 4H

Job ID: 880-38354-1

Job ID: 880-38354-1 Eurofins Midland

Job Narrative
880-38354-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/23/2024 3:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH-9 (0-1') (880-38354-1) and BH-9 (2') (880-38354-2).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-71644 and analytical batch 880-72300 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH-9 (2') (880-38354-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38354-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-9 (0-1')

Lab Sample ID: 880-38354-1
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/29/24 13:58	02/01/24 17:31	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/29/24 13:58	02/01/24 17:31	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/29/24 13:58	02/01/24 17:31	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/29/24 13:58	02/01/24 17:31	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/29/24 13:58	02/01/24 17:31	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/29/24 13:58	02/01/24 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*01/29/24 13:58*	*02/01/24 17:31*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*01/29/24 13:58*	*02/01/24 17:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/01/24 17:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/05/24 03:28	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/25/24 18:24	02/05/24 03:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/25/24 18:24	02/05/24 03:28	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/25/24 18:24	02/05/24 03:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*01/25/24 18:24*	*02/05/24 03:28*	*1*
o-Terphenyl	*113*		*70 - 130*	*01/25/24 18:24*	*02/05/24 03:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**175**		5.01		mg/Kg			01/28/24 19:38	1

Client Sample ID: BH-9 (2')

Lab Sample ID: 880-38354-2
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:58	02/01/24 18:24	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:58	02/01/24 18:24	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:58	02/01/24 18:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/29/24 13:58	02/01/24 18:24	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:58	02/01/24 18:24	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/29/24 13:58	02/01/24 18:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*01/29/24 13:58*	*02/01/24 18:24*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*01/29/24 13:58*	*02/01/24 18:24*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38354-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-9 (2')

Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Lab Sample ID: 880-38354-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/01/24 18:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/05/24 03:49	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/25/24 18:24	02/05/24 03:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/25/24 18:24	02/05/24 03:49	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/24 18:24	02/05/24 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*143*	*S1+*	*70 - 130*	*01/25/24 18:24*	*02/05/24 03:49*	*1*
o-Terphenyl	*125*		*70 - 130*	*01/25/24 18:24*	*02/05/24 03:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**144**		5.03		mg/Kg			01/28/24 19:45	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38354-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
880-38353-A-1-C MS	Matrix Spike	109	94										
880-38353-A-1-D MSD	Matrix Spike Duplicate	112	96										
880-38354-1	BH-9 (0-1')	120	109										
880-38354-2	BH-9 (2')	108	102										
LCS 880-71843/1-A	Lab Control Sample	112	96										
LCSD 880-71843/2-A	Lab Control Sample Dup	101	97										
MB 880-71843/5-A	Method Blank	117	115										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)										
880-38354-1	BH-9 (0-1')	128	113										
880-38354-2	BH-9 (2')	143 S1+	125										
880-38489-A-21-B MS	Matrix Spike	120	90										
880-38489-A-21-C MSD	Matrix Spike Duplicate	125	93										
LCS 880-71644/2-A	Lab Control Sample	115	113										
LCSD 880-71644/3-A	Lab Control Sample Dup	105	102										
MB 880-71644/1-A	Method Blank	180 S1+	160 S1+										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38354-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71843/5-A
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71843

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 16:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 16:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 16:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/24 13:58	02/01/24 16:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 16:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/29/24 13:58	02/01/24 16:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*01/29/24 13:58*	*02/01/24 16:21*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*01/29/24 13:58*	*02/01/24 16:21*	*1*

Lab Sample ID: LCS 880-71843/1-A
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71843

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09684		mg/Kg		97	70 - 130
Toluene	0.100	0.09342		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.1142		mg/Kg		114	70 - 130
m-Xylene & p-Xylene	0.200	0.2129		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1031		mg/Kg		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-71843/2-A
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71843

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09836		mg/Kg		98	70 - 130	2	35
Toluene	0.100	0.09655		mg/Kg		97	70 - 130	3	35
Ethylbenzene	0.100	0.1086		mg/Kg		109	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2034		mg/Kg		102	70 - 130	5	35
o-Xylene	0.100	0.09915		mg/Kg		99	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-38353-A-1-C MS
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71843

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.09287		mg/Kg		93	70 - 130
Toluene	<0.00199	U	0.0996	0.08872		mg/Kg		89	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38354-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-38353-A-1-C MS
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71843

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.09896		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1935		mg/Kg		97	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09458		mg/Kg		94	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-38353-A-1-D MSD
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 71843

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.08130		mg/Kg		82	70 - 130	13	35
Toluene	<0.00199	U	0.0990	0.07698		mg/Kg		78	70 - 130	14	35
Ethylbenzene	<0.00199	U	0.0990	0.08944		mg/Kg		90	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1752		mg/Kg		88	70 - 130	10	35
o-Xylene	<0.00199	U	0.0990	0.08580		mg/Kg		86	70 - 130	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-71644/1-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71644

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/25/24 18:22	02/04/24 19:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/25/24 18:22	02/04/24 19:06	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/24 18:22	02/04/24 19:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*180*	*S1+*	*70 - 130*	*01/25/24 18:22*	*02/04/24 19:06*	*1*
o-Terphenyl	*160*	*S1+*	*70 - 130*	*01/25/24 18:22*	*02/04/24 19:06*	*1*

Lab Sample ID: LCS 880-71644/2-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71644

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1154		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1113		mg/Kg		111	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38354-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-71644/2-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71644

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-71644/3-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71644

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1131		mg/Kg		113	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1078		mg/Kg		108	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	102		70 - 130

Lab Sample ID: 880-38489-A-21-B MS
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71644

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	1010	869.2		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	<50.3	U	1010	1208		mg/Kg		118	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 880-38489-A-21-C MSD
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 71644

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	1010	895.5		mg/Kg		87	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.3	U	1010	1258		mg/Kg		123	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	93		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38354-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71544/1-A
Matrix: Solid
Analysis Batch: 71648

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/28/24 17:55	1

Lab Sample ID: LCS 880-71544/2-A
Matrix: Solid
Analysis Batch: 71648

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	272.1		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-71544/3-A
Matrix: Solid
Analysis Batch: 71648

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	271.1		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-38355-A-1-B MS
Matrix: Solid
Analysis Batch: 71648

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	154		252	423.5		mg/Kg		107	90 - 110		

Lab Sample ID: 880-38355-A-1-C MSD
Matrix: Solid
Analysis Batch: 71648

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	154		252	420.6		mg/Kg		106	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38354-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 71843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38354-1	BH-9 (0-1')	Total/NA	Solid	5035	
880-38354-2	BH-9 (2')	Total/NA	Solid	5035	
MB 880-71843/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71843/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71843/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-38353-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-38353-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 72144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38354-1	BH-9 (0-1')	Total/NA	Solid	8021B	71843
880-38354-2	BH-9 (2')	Total/NA	Solid	8021B	71843
MB 880-71843/5-A	Method Blank	Total/NA	Solid	8021B	71843
LCS 880-71843/1-A	Lab Control Sample	Total/NA	Solid	8021B	71843
LCSD 880-71843/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71843
880-38353-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	71843
880-38353-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71843

Analysis Batch: 72215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38354-1	BH-9 (0-1')	Total/NA	Solid	Total BTEX	
880-38354-2	BH-9 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38354-1	BH-9 (0-1')	Total/NA	Solid	8015NM Prep	
880-38354-2	BH-9 (2')	Total/NA	Solid	8015NM Prep	
MB 880-71644/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71644/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71644/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-38489-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-38489-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 72300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38354-1	BH-9 (0-1')	Total/NA	Solid	8015B NM	71644
880-38354-2	BH-9 (2')	Total/NA	Solid	8015B NM	71644
MB 880-71644/1-A	Method Blank	Total/NA	Solid	8015B NM	71644
LCS 880-71644/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71644
LCSD 880-71644/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71644
880-38489-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	71644
880-38489-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71644

Analysis Batch: 72409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38354-1	BH-9 (0-1')	Total/NA	Solid	8015 NM	
880-38354-2	BH-9 (2')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38354-1
SDG: Eddy County, New Mexico

HPLC/IC

Leach Batch: 71544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38354-1	BH-9 (0-1')	Soluble	Solid	DI Leach	
880-38354-2	BH-9 (2')	Soluble	Solid	DI Leach	
MB 880-71544/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71544/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71544/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38355-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-38355-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 71648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38354-1	BH-9 (0-1')	Soluble	Solid	300.0	71544
880-38354-2	BH-9 (2')	Soluble	Solid	300.0	71544
MB 880-71544/1-A	Method Blank	Soluble	Solid	300.0	71544
LCS 880-71544/2-A	Lab Control Sample	Soluble	Solid	300.0	71544
LCSD 880-71544/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71544
880-38355-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	71544
880-38355-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71544

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38354-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-9 (0-1')

Lab Sample ID: 880-38354-1
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	71843	01/29/24 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72144	02/01/24 17:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72215	02/01/24 17:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			72409	02/05/24 03:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	71644	01/25/24 18:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72300	02/05/24 03:28	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	71544	01/24/24 17:33	SA	EET MID
Soluble	Analysis	300.0		1			71648	01/28/24 19:38	CH	EET MID

Client Sample ID: BH-9 (2')

Lab Sample ID: 880-38354-2
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	71843	01/29/24 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72144	02/01/24 18:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72215	02/01/24 18:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			72409	02/05/24 03:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	71644	01/25/24 18:24	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72300	02/05/24 03:49	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	71544	01/24/24 17:33	SA	EET MID
Soluble	Analysis	300.0		1			71648	01/28/24 19:45	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38354-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38354-1
SDG: Eddy County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38354-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38354-1	BH-9 (0-1')	Solid	01/22/24 00:00	01/23/24 15:14
880-38354-2	BH-9 (2')	Solid	01/22/24 00:00	01/23/24 15:14

Released to Imaging: 5/7/2024 3:27:42 PM
Received by OCD: 5/6/2024 4:05:37 PM

880-38354 Chain of Custody

Project Manager	Clinton Merritt	Bill to (if different)	Isaac Castro
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland TX 79701	City, State ZIP	Houston TX 77024
Phone	Email	icastro@marathonoil com	

Work Order Comments

Program UST/PST ☐ PRP ☐ rownfields ☐ RC ☐ perfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Black River 4H	Turn Around	
Project Number	2224	☑ Routine ☐ Rush	
Project Location	Eddy County New Mexico	Due Date	5 Day TAT
Sampler's Name	CCM		
PO #:	CL.23 03716		

SAMPLE RECEIPT				
Temp Blank	Yes No	Thermometer ID		T18
Received Intact	Yes No	Correction Factor		1.20
Cooler Custody Seals	Yes No N/A	Temperature Reading		4.0
Sample Custody Seals	Yes No N/A	Corrected Temperature		4.2
Total Containers		Wet Ice	Yes No	

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0
BH-9 (0-1')	1/22/2024		X		Grab/	1		X	X	X
BH-9 (2')	1/22/2024		X		Grab/	1		X	X	X

Preservative Codes

None NO DI Water H_2O

Cool Cool MeOH Me

HCL HC HNO_3 HN

H_2S0_4 H_2 NaOH Na

H_3PO_4 HP

$NaHSO_4$ NABIS

$Na_2S_2O_3$ $NaSO_3$

Zn Acetate+NaOH Zn

NaOH+Ascorbic Acid SAPC

Sample Comments

Comments Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources com, Clint Merritt MerrittC@carmonaresources com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Arena Flores	1-23-24	Jaunne	1/23/24
		WM	3:14

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-38354-1
SDG Number: Eddy County, New Mexico

Login Number: 38354
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 2/2/2024 11:58:45 AM

JOB DESCRIPTION

Black River 4H
Eddy County, New Mexico

JOB NUMBER

880-38355-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 5/7/2024 8:27:42 PM

my EOL

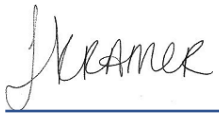
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38355-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Black River 4H

Job ID: 880-38355-1

Job ID: 880-38355-1 Eurofins Midland

Job Narrative
880-38355-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/23/2024 3:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH-10 (0-1') (880-38355-1), BH-10 (2') (880-38355-2) and BH-10 (3') (880-38355-3).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-10 (0-1') (880-38355-1) and BH-10 (3') (880-38355-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38355-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-10 (0-1')

Lab Sample ID: 880-38355-1
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:58	02/01/24 18:45	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:58	02/01/24 18:45	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:58	02/01/24 18:45	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/29/24 13:58	02/01/24 18:45	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:58	02/01/24 18:45	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/29/24 13:58	02/01/24 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*01/29/24 13:58*	*02/01/24 18:45*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*01/29/24 13:58*	*02/01/24 18:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/01/24 18:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**52.9**		50.4		mg/Kg			01/26/24 17:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		01/25/24 16:32	01/26/24 17:21	1
Diesel Range Organics (Over C10-C28)	**52.9**		50.4		mg/Kg		01/25/24 16:32	01/26/24 17:21	1
OII Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		01/25/24 16:32	01/26/24 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*01/25/24 16:32*	*01/26/24 17:21*	*1*
o-Terphenyl	*143*	*S1+*	*70 - 130*	*01/25/24 16:32*	*01/26/24 17:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**154**		5.04		mg/Kg			01/28/24 19:52	1

Client Sample ID: BH-10 (2')

Lab Sample ID: 880-38355-2
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 19:05	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 19:05	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 19:05	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/29/24 13:58	02/01/24 19:05	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 19:05	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/29/24 13:58	02/01/24 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*01/29/24 13:58*	*02/01/24 19:05*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*01/29/24 13:58*	*02/01/24 19:05*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38355-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-10 (2')

Lab Sample ID: 880-38355-2
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/01/24 19:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			01/26/24 17:44	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		01/25/24 16:32	01/26/24 17:44	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		01/25/24 16:32	01/26/24 17:44	1
OII Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		01/25/24 16:32	01/26/24 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*01/25/24 16:32*	*01/26/24 17:44*	*1*
o-Terphenyl	*115*		*70 - 130*	*01/25/24 16:32*	*01/26/24 17:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		5.00		mg/Kg			01/28/24 20:12	1

Client Sample ID: BH-10 (3')

Lab Sample ID: 880-38355-3
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/29/24 13:58	02/01/24 19:26	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/29/24 13:58	02/01/24 19:26	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/29/24 13:58	02/01/24 19:26	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/29/24 13:58	02/01/24 19:26	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/29/24 13:58	02/01/24 19:26	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/29/24 13:58	02/01/24 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*01/29/24 13:58*	*02/01/24 19:26*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*01/29/24 13:58*	*02/01/24 19:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/01/24 19:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			01/26/24 18:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		01/25/24 16:32	01/26/24 18:07	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		01/25/24 16:32	01/26/24 18:07	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38355-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-10 (3')

Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Lab Sample ID: 880-38355-3

Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		01/25/24 16:32	01/26/24 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*01/25/24 16:32*	*01/26/24 18:07*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*01/25/24 16:32*	*01/26/24 18:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**96.7**		4.96		mg/Kg			01/28/24 20:19	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38355-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-38353-A-1-C MS	Matrix Spike	109	94
880-38353-A-1-D MSD	Matrix Spike Duplicate	112	96
880-38355-1	BH-10 (0-1')	108	108
880-38355-2	BH-10 (2')	117	108
880-38355-3	BH-10 (3')	111	108
LCS 880-71843/1-A	Lab Control Sample	112	96
LCSD 880-71843/2-A	Lab Control Sample Dup	101	97
MB 880-71843/5-A	Method Blank	117	115

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-38355-1	BH-10 (0-1')	119	143 S1+
880-38355-2	BH-10 (2')	95	115
880-38355-3	BH-10 (3')	108	133 S1+
890-6020-A-1-F MS	Matrix Spike	116	119
890-6020-A-1-G MSD	Matrix Spike Duplicate	114	117
LCS 880-71622/2-A	Lab Control Sample	86	109
LCSD 880-71622/3-A	Lab Control Sample Dup	75	92
MB 880-71622/1-A	Method Blank	108	129

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38355-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71843/5-A
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71843

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 16:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 16:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 16:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/24 13:58	02/01/24 16:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 16:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/29/24 13:58	02/01/24 16:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*01/29/24 13:58*	*02/01/24 16:21*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*01/29/24 13:58*	*02/01/24 16:21*	*1*

Lab Sample ID: LCS 880-71843/1-A
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71843

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09684		mg/Kg		97	70 - 130
Toluene	0.100	0.09342		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.1142		mg/Kg		114	70 - 130
m-Xylene & p-Xylene	0.200	0.2129		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1031		mg/Kg		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-71843/2-A
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71843

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09836		mg/Kg		98	70 - 130	2	35
Toluene	0.100	0.09655		mg/Kg		97	70 - 130	3	35
Ethylbenzene	0.100	0.1086		mg/Kg		109	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2034		mg/Kg		102	70 - 130	5	35
o-Xylene	0.100	0.09915		mg/Kg		99	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-38353-A-1-C MS
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71843

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.09287		mg/Kg		93	70 - 130
Toluene	<0.00199	U	0.0996	0.08872		mg/Kg		89	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38355-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-38353-A-1-C MS
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71843

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.09896		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1935		mg/Kg		97	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09458		mg/Kg		94	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-38353-A-1-D MSD
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 71843

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.08130		mg/Kg		82	70 - 130	13	35
Toluene	<0.00199	U	0.0990	0.07698		mg/Kg		78	70 - 130	14	35
Ethylbenzene	<0.00199	U	0.0990	0.08944		mg/Kg		90	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1752		mg/Kg		88	70 - 130	10	35
o-Xylene	<0.00199	U	0.0990	0.08580		mg/Kg		86	70 - 130	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-71622/1-A
Matrix: Solid
Analysis Batch: 71655

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71622

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/25/24 16:31	01/26/24 07:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/25/24 16:31	01/26/24 07:06	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/24 16:31	01/26/24 07:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*01/25/24 16:31*	*01/26/24 07:06*	*1*
o-Terphenyl	*129*		*70 - 130*	*01/25/24 16:31*	*01/26/24 07:06*	*1*

Lab Sample ID: LCS 880-71622/2-A
Matrix: Solid
Analysis Batch: 71655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71622

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	928.7		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	932.5		mg/Kg		93	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38355-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-71622/2-A
Matrix: Solid
Analysis Batch: 71655

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71622

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	86		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: LCSD 880-71622/3-A
Matrix: Solid
Analysis Batch: 71655

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71622

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	878.9		mg/Kg		88	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	863.5		mg/Kg		86	70 - 130	8	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: 890-6020-A-1-F MS
Matrix: Solid
Analysis Batch: 71655

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71622

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	1010	929.4		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	<50.5	U	1010	1269		mg/Kg		124	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	116		70 - 130
o-Terphenyl	119		70 - 130

Lab Sample ID: 890-6020-A-1-G MSD
Matrix: Solid
Analysis Batch: 71655

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 71622

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	1010	960.4		mg/Kg		91	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<50.5	U	1010	1262		mg/Kg		123	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	117		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38355-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71544/1-A
Matrix: Solid
Analysis Batch: 71648

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/28/24 17:55	1

Lab Sample ID: LCS 880-71544/2-A
Matrix: Solid
Analysis Batch: 71648

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	272.1		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-71544/3-A
Matrix: Solid
Analysis Batch: 71648

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	271.1		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-38355-1 MS
Matrix: Solid
Analysis Batch: 71648

Client Sample ID: BH-10 (0-1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	154		252	423.5		mg/Kg		107	90 - 110		

Lab Sample ID: 880-38355-1 MSD
Matrix: Solid
Analysis Batch: 71648

Client Sample ID: BH-10 (0-1')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	154		252	420.6		mg/Kg		106	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38355-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 71843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38355-1	BH-10 (0-1')	Total/NA	Solid	5035	
880-38355-2	BH-10 (2')	Total/NA	Solid	5035	
880-38355-3	BH-10 (3')	Total/NA	Solid	5035	
MB 880-71843/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71843/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71843/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-38353-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-38353-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 72144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38355-1	BH-10 (0-1')	Total/NA	Solid	8021B	71843
880-38355-2	BH-10 (2')	Total/NA	Solid	8021B	71843
880-38355-3	BH-10 (3')	Total/NA	Solid	8021B	71843
MB 880-71843/5-A	Method Blank	Total/NA	Solid	8021B	71843
LCS 880-71843/1-A	Lab Control Sample	Total/NA	Solid	8021B	71843
LCSD 880-71843/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71843
880-38353-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	71843
880-38353-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71843

Analysis Batch: 72216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38355-1	BH-10 (0-1')	Total/NA	Solid	Total BTEX	
880-38355-2	BH-10 (2')	Total/NA	Solid	Total BTEX	
880-38355-3	BH-10 (3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38355-1	BH-10 (0-1')	Total/NA	Solid	8015NM Prep	
880-38355-2	BH-10 (2')	Total/NA	Solid	8015NM Prep	
880-38355-3	BH-10 (3')	Total/NA	Solid	8015NM Prep	
MB 880-71622/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71622/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71622/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6020-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6020-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 71655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38355-1	BH-10 (0-1')	Total/NA	Solid	8015B NM	71622
880-38355-2	BH-10 (2')	Total/NA	Solid	8015B NM	71622
880-38355-3	BH-10 (3')	Total/NA	Solid	8015B NM	71622
MB 880-71622/1-A	Method Blank	Total/NA	Solid	8015B NM	71622
LCS 880-71622/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71622
LCSD 880-71622/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71622
890-6020-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	71622
890-6020-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71622

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38355-1
SDG: Eddy County, New Mexico

GC Semi VOA

Analysis Batch: 71887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38355-1	BH-10 (0-1')	Total/NA	Solid	8015 NM	
880-38355-2	BH-10 (2')	Total/NA	Solid	8015 NM	
880-38355-3	BH-10 (3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38355-1	BH-10 (0-1')	Soluble	Solid	DI Leach	
880-38355-2	BH-10 (2')	Soluble	Solid	DI Leach	
880-38355-3	BH-10 (3')	Soluble	Solid	DI Leach	
MB 880-71544/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71544/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71544/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38355-1 MS	BH-10 (0-1')	Soluble	Solid	DI Leach	
880-38355-1 MSD	BH-10 (0-1')	Soluble	Solid	DI Leach	

Analysis Batch: 71648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38355-1	BH-10 (0-1')	Soluble	Solid	300.0	71544
880-38355-2	BH-10 (2')	Soluble	Solid	300.0	71544
880-38355-3	BH-10 (3')	Soluble	Solid	300.0	71544
MB 880-71544/1-A	Method Blank	Soluble	Solid	300.0	71544
LCS 880-71544/2-A	Lab Control Sample	Soluble	Solid	300.0	71544
LCSD 880-71544/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71544
880-38355-1 MS	BH-10 (0-1')	Soluble	Solid	300.0	71544
880-38355-1 MSD	BH-10 (0-1')	Soluble	Solid	300.0	71544

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38355-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-10 (0-1')

Lab Sample ID: 880-38355-1
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	71843	01/29/24 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72144	02/01/24 18:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72216	02/01/24 18:45	SM	EET MID
Total/NA	Analysis	8015 NM		1			71887	01/26/24 17:21	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	71622	01/25/24 16:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/26/24 17:21	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	71544	01/24/24 17:33	SA	EET MID
Soluble	Analysis	300.0		1			71648	01/28/24 19:52	CH	EET MID

Client Sample ID: BH-10 (2')

Lab Sample ID: 880-38355-2
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	71843	01/29/24 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72144	02/01/24 19:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72216	02/01/24 19:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			71887	01/26/24 17:44	SM	EET MID
Total/NA	Prep	8015NM Prep			9.96 g	10 mL	71622	01/25/24 16:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/26/24 17:44	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	71544	01/24/24 17:33	SA	EET MID
Soluble	Analysis	300.0		1			71648	01/28/24 20:12	CH	EET MID

Client Sample ID: BH-10 (3')

Lab Sample ID: 880-38355-3
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	71843	01/29/24 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72144	02/01/24 19:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72216	02/01/24 19:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			71887	01/26/24 18:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	71622	01/25/24 16:32	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	71655	01/26/24 18:07	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	71544	01/24/24 17:33	SA	EET MID
Soluble	Analysis	300.0		1			71648	01/28/24 20:19	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38355-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38355-1
SDG: Eddy County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38355-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38355-1	BH-10 (0-1')	Solid	01/22/24 00:00	01/23/24 15:14
880-38355-2	BH-10 (2')	Solid	01/22/24 00:00	01/23/24 15:14
880-38355-3	BH-10 (3')	Solid	01/22/24 00:00	01/23/24 15:14

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Received by OCD: 5/6/2024 4:05:37 PM

880-38355 Chain of Custody

Project Manager:	Clinton Merritt	Bill to (if different)	Isaac Castro
Company Name:	Carmona Resources	Company Name	Marathon Oil Corporation
Address:	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland TX 79701	City, State ZIP	Houston TX 77024
Phone:		Email	icastro@marathonoil.com

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name	Black River 4H	Turn Around	
Project Number:	2224	☑ Routine ☐ Rush	
Project Location	Eddy County, New Mexico	Due Date	5 Day TAT
Sampler's Name	CCM		
PO #:	CL.23 03716		

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice	Yes No	
Received Intact:	(Yes) No	Thermometer ID	IR8	
Cooler Custody Seals	Yes No (N/A)	Correction Factor:	+.2	
Sample Custody Seals	Yes No (N/A)	Temperature Reading	4.0	
Total Containers		Corrected Temperature	4.2	

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL HC; HNO_3 HN; H_2S0_4 H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0	Sample Comments
BH-10 (0-1')	1/22/2024		X		Grab/	1		X	X	X	
BH-10 (2')	1/22/2024		X		Grab/	1		X	X	X	
BH-10 (3')	1/22/2024		X		Grab/	1		X	X	X	

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by (Signature)	Date/Time
Brenda Nunez	1-23-24	[illegible]	1/23/24
		[illegible]	3:14

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-38355-1
SDG Number: Eddy County, New Mexico

Login Number: 38355
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

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JOB DESCRIPTION

Black River 4H
Eddy County, New Mexico

JOB NUMBER

880-38356-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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my EOL

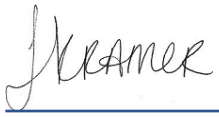
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38356-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Black River 4H

Job ID: 880-38356-1

Job ID: 880-38356-1 Eurofins Midland

Job Narrative
880-38356-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 1/23/2024 3:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: BH-8 (0-1') (880-38356-1), BH-8 (2') (880-38356-2) and BH-8 (3') (880-38356-3).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-71643 and analytical batch 880-72300 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH-8 (0-1') (880-38356-1), (880-38347-A-1-B), (880-38347-A-1-C MS) and (880-38347-A-1-D MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-71643 and analytical batch 880-72300 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-71544 and analytical batch 880-71648 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38356-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-8 (0-1')

Lab Sample ID: 880-38356-1
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:58	02/01/24 19:46	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:58	02/01/24 19:46	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:58	02/01/24 19:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/29/24 13:58	02/01/24 19:46	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:58	02/01/24 19:46	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/29/24 13:58	02/01/24 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*01/29/24 13:58*	*02/01/24 19:46*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*01/29/24 13:58*	*02/01/24 19:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/01/24 19:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**74.4**		50.0		mg/Kg			02/04/24 16:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/25/24 18:20	02/04/24 16:40	1
Diesel Range Organics (Over C10-C28)	**74.4**		50.0		mg/Kg		01/25/24 18:20	02/04/24 16:40	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/24 18:20	02/04/24 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*131*	*S1+*	*70 - 130*	*01/25/24 18:20*	*02/04/24 16:40*	*1*
o-Terphenyl	*114*		*70 - 130*	*01/25/24 18:20*	*02/04/24 16:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3080**		24.8		mg/Kg			01/28/24 20:40	5

Client Sample ID: BH-8 (2')

Lab Sample ID: 880-38356-2
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:58	02/01/24 20:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:58	02/01/24 20:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:58	02/01/24 20:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/29/24 13:58	02/01/24 20:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/29/24 13:58	02/01/24 20:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/29/24 13:58	02/01/24 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*01/29/24 13:58*	*02/01/24 20:07*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*01/29/24 13:58*	*02/01/24 20:07*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38356-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-8 (2')

Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Lab Sample ID: 880-38356-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/01/24 20:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/04/24 17:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/25/24 18:20	02/04/24 17:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/25/24 18:20	02/04/24 17:00	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/25/24 18:20	02/04/24 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*01/25/24 18:20*	*02/04/24 17:00*	*1*
o-Terphenyl	*113*		*70 - 130*	*01/25/24 18:20*	*02/04/24 17:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**104**		5.02		mg/Kg			01/28/24 20:47	1

Client Sample ID: BH-8 (3')

Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Lab Sample ID: 880-38356-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 20:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 20:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 20:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/29/24 13:58	02/01/24 20:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 20:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/29/24 13:58	02/01/24 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*01/29/24 13:58*	*02/01/24 20:27*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*01/29/24 13:58*	*02/01/24 20:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/01/24 20:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			02/04/24 17:22	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		01/25/24 18:20	02/04/24 17:22	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		01/25/24 18:20	02/04/24 17:22	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38356-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-8 (3')

Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Lab Sample ID: 880-38356-3

Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		01/25/24 18:20	02/04/24 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*01/25/24 18:20*	*02/04/24 17:22*	*1*
o-Terphenyl	*111*		*70 - 130*	*01/25/24 18:20*	*02/04/24 17:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**83.1**		5.01		mg/Kg			01/28/24 20:54	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38356-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-38353-A-1-C MS	Matrix Spike	109	94
880-38353-A-1-D MSD	Matrix Spike Duplicate	112	96
880-38356-1	BH-8 (0-1')	112	104
880-38356-2	BH-8 (2')	122	108
880-38356-3	BH-8 (3')	122	111
LCS 880-71843/1-A	Lab Control Sample	112	96
LCSD 880-71843/2-A	Lab Control Sample Dup	101	97
MB 880-71843/5-A	Method Blank	117	115

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-38347-A-1-C MS	Matrix Spike	135 S1+	99
880-38347-A-1-D MSD	Matrix Spike Duplicate	140 S1+	101
880-38356-1	BH-8 (0-1')	131 S1+	114
880-38356-2	BH-8 (2')	128	113
880-38356-3	BH-8 (3')	125	111
LCS 880-71643/2-A	Lab Control Sample	99	99
LCSD 880-71643/3-A	Lab Control Sample Dup	100	100
MB 880-71643/1-A	Method Blank	184 S1+	163 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38356-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-71843/5-A
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71843

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 16:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 16:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 16:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/29/24 13:58	02/01/24 16:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/29/24 13:58	02/01/24 16:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/29/24 13:58	02/01/24 16:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*01/29/24 13:58*	*02/01/24 16:21*	*1*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*	*01/29/24 13:58*	*02/01/24 16:21*	*1*

Lab Sample ID: LCS 880-71843/1-A
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71843

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09684		mg/Kg		97	70 - 130		
Toluene			0.100	0.09342		mg/Kg		93	70 - 130		
Ethylbenzene			0.100	0.1142		mg/Kg		114	70 - 130		
m-Xylene & p-Xylene			0.200	0.2129		mg/Kg		106	70 - 130		
o-Xylene			0.100	0.1031		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-71843/2-A
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71843

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09836		mg/Kg		98	70 - 130	2	35
Toluene			0.100	0.09655		mg/Kg		97	70 - 130	3	35
Ethylbenzene			0.100	0.1086		mg/Kg		109	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2034		mg/Kg		102	70 - 130	5	35
o-Xylene			0.100	0.09915		mg/Kg		99	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-38353-A-1-C MS
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71843

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.0996	0.09287		mg/Kg		93	70 - 130		
Toluene	<0.00199	U	0.0996	0.08872		mg/Kg		89	70 - 130		

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38356-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-38353-A-1-C MS
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71843

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.09896		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1935		mg/Kg		97	70 - 130
o-Xylene	<0.00199	U	0.0996	0.09458		mg/Kg		94	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-38353-A-1-D MSD
Matrix: Solid
Analysis Batch: 72144

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 71843

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0990	0.08130		mg/Kg		82	70 - 130	13	35
Toluene	<0.00199	U	0.0990	0.07698		mg/Kg		78	70 - 130	14	35
Ethylbenzene	<0.00199	U	0.0990	0.08944		mg/Kg		90	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1752		mg/Kg		88	70 - 130	10	35
o-Xylene	<0.00199	U	0.0990	0.08580		mg/Kg		86	70 - 130	10	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-71643/1-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71643

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/24 18:19	02/04/24 08:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*184*	*S1+*	*70 - 130*	*01/25/24 18:19*	*02/04/24 08:12*	*1*
o-Terphenyl	*163*	*S1+*	*70 - 130*	*01/25/24 18:19*	*02/04/24 08:12*	*1*

Lab Sample ID: LCS 880-71643/2-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71643

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	940.8		mg/Kg		94	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1233		mg/Kg		123	70 - 130

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QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38356-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-71643/2-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71643

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: LCSD 880-71643/3-A
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71643

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1107		mg/Kg		111	70 - 130	16	20
Diesel Range Organics (Over C10-C28)			1000	1050		mg/Kg		105	70 - 130	16	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 880-38347-A-1-C MS
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 71643

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1264		mg/Kg		122	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.1	U F1	1010	1789	F1	mg/Kg		176	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	135	S1+	70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 880-38347-A-1-D MSD
Matrix: Solid
Analysis Batch: 72300

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 71643

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1329		mg/Kg		128	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<50.1	U F1	1010	1863	F1	mg/Kg		183	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	140	S1+	70 - 130
o-Terphenyl	101		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38356-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-71544/1-A
Matrix: Solid
Analysis Batch: 71648

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/28/24 17:55	1

Lab Sample ID: LCS 880-71544/2-A
Matrix: Solid
Analysis Batch: 71648

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	272.1		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-71544/3-A
Matrix: Solid
Analysis Batch: 71648

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	271.1		mg/Kg		108	90 - 110	0	20

Lab Sample ID: 880-38350-A-1-B MS
Matrix: Solid
Analysis Batch: 71648

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	2610	F1	1250	4029	F1	mg/Kg		114	90 - 110		

Lab Sample ID: 880-38350-A-1-C MSD
Matrix: Solid
Analysis Batch: 71648

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	2610	F1	1250	4024	F1	mg/Kg		114	90 - 110	0	20

Lab Sample ID: 880-38355-A-1-B MS
Matrix: Solid
Analysis Batch: 71648

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	154		252	423.5		mg/Kg		107	90 - 110		

Lab Sample ID: 880-38355-A-1-C MSD
Matrix: Solid
Analysis Batch: 71648

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	154		252	420.6		mg/Kg		106	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38356-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 71843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38356-1	BH-8 (0-1')	Total/NA	Solid	5035	
880-38356-2	BH-8 (2')	Total/NA	Solid	5035	
880-38356-3	BH-8 (3')	Total/NA	Solid	5035	
MB 880-71843/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-71843/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-71843/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-38353-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-38353-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 72144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38356-1	BH-8 (0-1')	Total/NA	Solid	8021B	71843
880-38356-2	BH-8 (2')	Total/NA	Solid	8021B	71843
880-38356-3	BH-8 (3')	Total/NA	Solid	8021B	71843
MB 880-71843/5-A	Method Blank	Total/NA	Solid	8021B	71843
LCS 880-71843/1-A	Lab Control Sample	Total/NA	Solid	8021B	71843
LCSD 880-71843/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	71843
880-38353-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	71843
880-38353-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	71843

Analysis Batch: 72217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38356-1	BH-8 (0-1')	Total/NA	Solid	Total BTEX	
880-38356-2	BH-8 (2')	Total/NA	Solid	Total BTEX	
880-38356-3	BH-8 (3')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 71643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38356-1	BH-8 (0-1')	Total/NA	Solid	8015NM Prep	
880-38356-2	BH-8 (2')	Total/NA	Solid	8015NM Prep	
880-38356-3	BH-8 (3')	Total/NA	Solid	8015NM Prep	
MB 880-71643/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-71643/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-71643/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-38347-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-38347-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 72300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38356-1	BH-8 (0-1')	Total/NA	Solid	8015B NM	71643
880-38356-2	BH-8 (2')	Total/NA	Solid	8015B NM	71643
880-38356-3	BH-8 (3')	Total/NA	Solid	8015B NM	71643
MB 880-71643/1-A	Method Blank	Total/NA	Solid	8015B NM	71643
LCS 880-71643/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	71643
LCSD 880-71643/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	71643
880-38347-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	71643
880-38347-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	71643

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38356-1
SDG: Eddy County, New Mexico

GC Semi VOA

Analysis Batch: 72407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38356-1	BH-8 (0-1')	Total/NA	Solid	8015 NM	
880-38356-2	BH-8 (2')	Total/NA	Solid	8015 NM	
880-38356-3	BH-8 (3')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 71544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38356-1	BH-8 (0-1')	Soluble	Solid	DI Leach	
880-38356-2	BH-8 (2')	Soluble	Solid	DI Leach	
880-38356-3	BH-8 (3')	Soluble	Solid	DI Leach	
MB 880-71544/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-71544/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-71544/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-38350-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-38350-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
880-38355-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-38355-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 71648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38356-1	BH-8 (0-1')	Soluble	Solid	300.0	71544
880-38356-2	BH-8 (2')	Soluble	Solid	300.0	71544
880-38356-3	BH-8 (3')	Soluble	Solid	300.0	71544
MB 880-71544/1-A	Method Blank	Soluble	Solid	300.0	71544
LCS 880-71544/2-A	Lab Control Sample	Soluble	Solid	300.0	71544
LCSD 880-71544/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	71544
880-38350-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	71544
880-38350-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71544
880-38355-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	71544
880-38355-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	71544

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38356-1
SDG: Eddy County, New Mexico

Client Sample ID: BH-8 (0-1')

Lab Sample ID: 880-38356-1
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	71843	01/29/24 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72144	02/01/24 19:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72217	02/01/24 19:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			72407	02/04/24 16:40	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	71643	01/25/24 18:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72300	02/04/24 16:40	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	71544	01/24/24 17:33	SA	EET MID
Soluble	Analysis	300.0		5			71648	01/28/24 20:40	CH	EET MID

Client Sample ID: BH-8 (2')

Lab Sample ID: 880-38356-2
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	71843	01/29/24 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72144	02/01/24 20:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72217	02/01/24 20:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			72407	02/04/24 17:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	71643	01/25/24 18:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72300	02/04/24 17:00	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	71544	01/24/24 17:33	SA	EET MID
Soluble	Analysis	300.0		1			71648	01/28/24 20:47	CH	EET MID

Client Sample ID: BH-8 (3')

Lab Sample ID: 880-38356-3
Matrix: Solid
Date Collected: 01/22/24 00:00
Date Received: 01/23/24 15:14

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	71843	01/29/24 13:58	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	72144	02/01/24 20:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			72217	02/01/24 20:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			72407	02/04/24 17:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	71643	01/25/24 18:20	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	72300	02/04/24 17:22	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	71544	01/24/24 17:33	SA	EET MID
Soluble	Analysis	300.0		1			71648	01/28/24 20:54	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38356-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38356-1
SDG: Eddy County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-38356-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38356-1	BH-8 (0-1')	Solid	01/22/24 00:00	01/23/24 15:14
880-38356-2	BH-8 (2')	Solid	01/22/24 00:00	01/23/24 15:14
880-38356-3	BH-8 (3')	Solid	01/22/24 00:00	01/23/24 15:14

Released to Imaging: 5/7/2024 3:27:42 PM
Received by OCD: 5/6/2024 4:05:37 PM

880-38356 Chain of Custody

Page 1 of 1

Project Manager	Clinton Merritt	Bill to (if different)	Isaac Castro
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland TX 79701	City, State ZIP	Houston TX 77024
Phone		Email	icastro@marathonoil.com

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Black River 4H	Turn Around	
Project Number	2224	☑ Routine	☐ Rush
Project Location	Eddy County New Mexico	Due Date	5 Day TAT
Sampler's Name	CCM		
PO #:	CL.23 03716		

SAMPLE RECEIPT			
Temp Blank	Yes (No)	Wet Ice	Yes No
Received Intact:	(Yes) No	Thermometer ID	IR8
Cooler Custody Seals	Yes No N/A	Correction Factor	+2.0
Sample Custody Seals	Yes No N/A	Temperature Reading	4.0
Total Containers		Corrected Temperature	4.2

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL HC; HNO_3 HN; H_2S0_4 H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0	Sample Comments
BH-8 (0-1')	1/22/2024		X		Grab/	1	X	X	X	
BH-8 (2')	1/22/2024		X		Grab/	1	X	X	X	
BH-8 (3')	1/22/2024		X		Grab/	1	X	X	X	

Comments Email results to Mike Carmona mcarmona@carmonaresources com, Conner Moehring cmoehring@carmonaresources com, Clint Merritt MerrittC@carmonaresources com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
Clinton Merritt	1-23-24	Jazmine	1/23/24
		Ushon	3:14

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-38356-1
SDG Number: Eddy County, New Mexico

Login Number: 38356
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 3/21/2024 4:11:37 PM Revision 1

JOB DESCRIPTION

Black River 4H
Eddy County, New Mexico

JOB NUMBER

880-40252-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 5/7/2024 8:27:42 PM

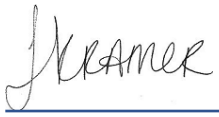
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
3/21/2024 4:11:37 PM
Revision 1

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Carmona Resources
Project/Site: Black River 4H

Laboratory Job ID: 880-40252-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Black River 4H

Job ID: 880-40252-1

Job ID: 880-40252-1 Eurofins Midland

Job Narrative
880-40252-1

REVISION

The report being provided is a revision of the original report sent on 3/11/2024. The report (revision 1) is being revised due to Per client email, revised report needed. Samples are composite not grab..

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/4/2024 2:37 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -5.3°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (2') (880-40252-1), CS-2 (2') (880-40252-2), CS-3 (2') (880-40252-3), CS-4 (2') (880-40252-4), CS-5 (2') (880-40252-5), CS-6 (2') (880-40252-6), CS-7 (2') (880-40252-7), CS-8 (2') (880-40252-8), CS-9 (2') (880-40252-9), CS-10 (2') (880-40252-10), CS-11 (2') (880-40252-11), CS-12 (2') (880-40252-12), SW-1 (2') (880-40252-13), SW-2 (2') (880-40252-14), SW-3 (2') (880-40252-15), SW-4 (2') (880-40252-16), SW-5 (2') (880-40252-17), SW-6 (2') (880-40252-18), SW-7 (2') (880-40252-19), SW-8 (2') (880-40252-20), SW-9 (2') (880-40252-21), SW-10 (2') (880-40252-22), SW-11 (2') (880-40252-23), SW-12 (2') (880-40252-24), SW-13 (2') (880-40252-25), SW-14 (2') (880-40252-26), SW-15 (2') (880-40252-27), SW-16 (2') (880-40252-28), SW-17 (2') (880-40252-29), SW-18 (2') (880-40252-30), SW-19 (2') (880-40252-31), SW-20 (2') (880-40252-32), SW-21 (2') (880-40252-33) and SW-22 (2') (880-40252-34).

GC VOA
Method 8021B: The continuing calibration verification (CCV) associated with batch 880-74750 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-74750/2), (CCV 880-74750/20) and (CCV 880-74750/64).

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-74689 and analytical batch 880-74750 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-74842 and analytical batch 880-74854 was outside the upper control limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-74750 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-74750/33) and (CCV 880-74750/51).

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-74896 and analytical batch 880-74855 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-75007 recovered above the upper control limit for Benzene due to carryover. An acceptable CCV was ran within the 12 hour window therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-75007/33).

Eurofins Midland

Case Narrative

Client: Carmona Resources
Project: Black River 4H

Job ID: 880-40252-1

Job ID: 880-40252-1 (Continued) Eurofins Midland

Method 8021B: The matrix spike duplicate (MSD) recoveries for preparation batch 880-74999 and analytical batch 880-75000 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-74935/2-A) and (LCSD 880-74935/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-74935 and analytical batch 880-74954 was outside control limits. Sample non-homogeneity is suspected.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-74954 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-74954/33).

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-75057 and analytical batch 880-75049 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW-2 (2') (880-40252-14). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-75049 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour limit, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-75049/5).

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-9 (2') (880-40252-21), SW-10 (2') (880-40252-22), SW-12 (2') (880-40252-24), SW-14 (2') (880-40252-26), SW-15 (2') (880-40252-27) and SW-16 (2') (880-40252-28). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SW-18 (2') (880-40252-30) and SW-21 (2') (880-40252-33). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-74758 and analytical batch 880-75086 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (2')

Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-1
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/04/24 16:29	03/07/24 15:59	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/04/24 16:29	03/07/24 15:59	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/04/24 16:29	03/07/24 15:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/04/24 16:29	03/07/24 15:59	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/04/24 16:29	03/07/24 15:59	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/04/24 16:29	03/07/24 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/04/24 16:29*	*03/07/24 15:59*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*03/04/24 16:29*	*03/07/24 15:59*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/24 15:59	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**54.6**		49.7		mg/Kg			03/07/24 11:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F2	49.7		mg/Kg		03/06/24 16:51	03/07/24 11:11	1
Diesel Range Organics (Over C10-C28)	**54.6**		49.7		mg/Kg		03/06/24 16:51	03/07/24 11:11	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/06/24 16:51	03/07/24 11:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*03/06/24 16:51*	*03/07/24 11:11*	*1*
o-Terphenyl	*107*		*70 - 130*	*03/06/24 16:51*	*03/07/24 11:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**625**		5.04		mg/Kg			03/08/24 22:14	1

Client Sample ID: CS-2 (2')

Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-2
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/04/24 16:29	03/07/24 20:29	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/04/24 16:29	03/07/24 20:29	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/04/24 16:29	03/07/24 20:29	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/04/24 16:29	03/07/24 20:29	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/04/24 16:29	03/07/24 20:29	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/04/24 16:29	03/07/24 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/04/24 16:29*	*03/07/24 20:29*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/04/24 16:29*	*03/07/24 20:29*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-2 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-2
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/07/24 20:29	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			03/07/24 12:16	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		03/06/24 16:51	03/07/24 12:16	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		03/06/24 16:51	03/07/24 12:16	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		03/06/24 16:51	03/07/24 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*03/06/24 16:51*	*03/07/24 12:16*	*1*
o-Terphenyl	*110*		*70 - 130*	*03/06/24 16:51*	*03/07/24 12:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**715**		5.03		mg/Kg			03/08/24 22:31	1

Client Sample ID: CS-3 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-3
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/04/24 16:29	03/07/24 20:50	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/04/24 16:29	03/07/24 20:50	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/04/24 16:29	03/07/24 20:50	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/04/24 16:29	03/07/24 20:50	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/04/24 16:29	03/07/24 20:50	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/04/24 16:29	03/07/24 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/04/24 16:29*	*03/07/24 20:50*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/04/24 16:29*	*03/07/24 20:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/07/24 20:50	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/07/24 12:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/24 16:51	03/07/24 12:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/24 16:51	03/07/24 12:37	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-3 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-3
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/24 16:51	03/07/24 12:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*03/06/24 16:51*	*03/07/24 12:37*	*1*
o-Terphenyl	*86*		*70 - 130*	*03/06/24 16:51*	*03/07/24 12:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**		5.05		mg/Kg			03/08/24 22:37	1

Client Sample ID: CS-4 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-4
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/04/24 16:29	03/07/24 21:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/04/24 16:29	03/07/24 21:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/04/24 16:29	03/07/24 21:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/04/24 16:29	03/07/24 21:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/04/24 16:29	03/07/24 21:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/04/24 16:29	03/07/24 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/04/24 16:29*	*03/07/24 21:11*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/04/24 16:29*	*03/07/24 21:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/24 21:11	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/07/24 15:52	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/24 16:51	03/07/24 15:52	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/24 16:51	03/07/24 15:52	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/24 16:51	03/07/24 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*03/06/24 16:51*	*03/07/24 15:52*	*1*
o-Terphenyl	*98*		*70 - 130*	*03/06/24 16:51*	*03/07/24 15:52*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**79.6**		5.05		mg/Kg			03/08/24 22:43	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-5 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-5
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:29	03/07/24 21:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:29	03/07/24 21:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:29	03/07/24 21:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/04/24 16:29	03/07/24 21:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:29	03/07/24 21:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/04/24 16:29	03/07/24 21:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*	*03/04/24 16:29*	*03/07/24 21:31*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*03/04/24 16:29*	*03/07/24 21:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/07/24 21:31	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			03/07/24 16:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		03/06/24 16:51	03/07/24 16:14	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		03/06/24 16:51	03/07/24 16:14	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		03/06/24 16:51	03/07/24 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*03/06/24 16:51*	*03/07/24 16:14*	*1*
o-Terphenyl	*82*		*70 - 130*	*03/06/24 16:51*	*03/07/24 16:14*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**41.6**		5.02		mg/Kg			03/08/24 22:48	1

Client Sample ID: CS-6 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-6
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/04/24 16:29	03/07/24 21:52	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/04/24 16:29	03/07/24 21:52	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/04/24 16:29	03/07/24 21:52	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/04/24 16:29	03/07/24 21:52	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/04/24 16:29	03/07/24 21:52	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/04/24 16:29	03/07/24 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*03/04/24 16:29*	*03/07/24 21:52*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/04/24 16:29*	*03/07/24 21:52*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-6 (2')

Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-6
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/07/24 21:52	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			03/07/24 16:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		03/06/24 16:51	03/07/24 16:36	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		03/06/24 16:51	03/07/24 16:36	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		03/06/24 16:51	03/07/24 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*03/06/24 16:51*	*03/07/24 16:36*	*1*
o-Terphenyl	*90*		*70 - 130*	*03/06/24 16:51*	*03/07/24 16:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**849**		4.99		mg/Kg			03/08/24 23:06	1

Client Sample ID: CS-7 (2')

Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-7
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/04/24 16:29	03/07/24 22:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/04/24 16:29	03/07/24 22:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/04/24 16:29	03/07/24 22:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/04/24 16:29	03/07/24 22:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/04/24 16:29	03/07/24 22:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/04/24 16:29	03/07/24 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*03/04/24 16:29*	*03/07/24 22:13*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/04/24 16:29*	*03/07/24 22:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/07/24 22:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			03/07/24 16:57	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		03/06/24 16:51	03/07/24 16:57	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/06/24 16:51	03/07/24 16:57	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-7 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-7
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/06/24 16:51	03/07/24 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*03/06/24 16:51*	*03/07/24 16:57*	*1*
o-Terphenyl	*110*		*70 - 130*	*03/06/24 16:51*	*03/07/24 16:57*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**154**		4.98		mg/Kg			03/08/24 23:11	1

Client Sample ID: CS-8 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-8
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:23	03/08/24 01:33	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:23	03/08/24 01:33	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:23	03/08/24 01:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/07/24 12:23	03/08/24 01:33	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:23	03/08/24 01:33	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/24 12:23	03/08/24 01:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*03/07/24 12:23*	*03/08/24 01:33*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*03/07/24 12:23*	*03/08/24 01:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/08/24 01:33	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**180**		50.4		mg/Kg			03/07/24 17:19	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		03/06/24 16:51	03/07/24 17:19	1
Diesel Range Organics (Over C10-C28)	**180**		50.4		mg/Kg		03/06/24 16:51	03/07/24 17:19	1
Oll Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		03/06/24 16:51	03/07/24 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*03/06/24 16:51*	*03/07/24 17:19*	*1*
o-Terphenyl	*85*		*70 - 130*	*03/06/24 16:51*	*03/07/24 17:19*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**230**		5.01		mg/Kg			03/08/24 23:17	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-9 (2')

Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-9
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:23	03/08/24 02:00	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:23	03/08/24 02:00	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:23	03/08/24 02:00	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/07/24 12:23	03/08/24 02:00	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/24 12:23	03/08/24 02:00	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/07/24 12:23	03/08/24 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/07/24 12:23*	*03/08/24 02:00*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*03/07/24 12:23*	*03/08/24 02:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/08/24 02:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			03/07/24 17:40	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		03/06/24 16:51	03/07/24 17:40	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		03/06/24 16:51	03/07/24 17:40	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		03/06/24 16:51	03/07/24 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*03/06/24 16:51*	*03/07/24 17:40*	*1*
o-Terphenyl	*87*		*70 - 130*	*03/06/24 16:51*	*03/07/24 17:40*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**187**		5.03		mg/Kg			03/08/24 23:23	1

Client Sample ID: CS-10 (2')

Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-10
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:23	03/08/24 02:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:23	03/08/24 02:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:23	03/08/24 02:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/07/24 12:23	03/08/24 02:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/07/24 12:23	03/08/24 02:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/24 12:23	03/08/24 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*03/07/24 12:23*	*03/08/24 02:27*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*03/07/24 12:23*	*03/08/24 02:27*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-10 (2')

Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-10
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/08/24 02:27	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/07/24 18:02	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/06/24 16:51	03/07/24 18:02	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/06/24 16:51	03/07/24 18:02	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/06/24 16:51	03/07/24 18:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*03/06/24 16:51*	*03/07/24 18:02*	*1*
o-Terphenyl	*114*		*70 - 130*	*03/06/24 16:51*	*03/07/24 18:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**198**		4.97		mg/Kg			03/08/24 23:29	1

Client Sample ID: CS-11 (2')

Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-11
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/08/24 02:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/08/24 02:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/08/24 02:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/24 12:23	03/08/24 02:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/08/24 02:53	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/24 12:23	03/08/24 02:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*03/07/24 12:23*	*03/08/24 02:53*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*03/07/24 12:23*	*03/08/24 02:53*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/08/24 02:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/07/24 18:23	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/06/24 16:51	03/07/24 18:23	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/06/24 16:51	03/07/24 18:23	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-11 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-11
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/06/24 16:51	03/07/24 18:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*03/06/24 16:51*	*03/07/24 18:23*	*1*
o-Terphenyl	*103*		*70 - 130*	*03/06/24 16:51*	*03/07/24 18:23*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**194**	**F1**	4.99		mg/Kg			03/08/24 23:34	1

Client Sample ID: CS-12 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-12
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:23	03/08/24 00:13	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:23	03/08/24 00:13	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:23	03/08/24 00:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/07/24 12:23	03/08/24 00:13	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/07/24 12:23	03/08/24 00:13	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/07/24 12:23	03/08/24 00:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*03/07/24 12:23*	*03/08/24 00:13*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*03/07/24 12:23*	*03/08/24 00:13*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/08/24 00:13	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/07/24 18:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/24 16:51	03/07/24 18:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/24 16:51	03/07/24 18:45	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/24 16:51	03/07/24 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*03/06/24 16:51*	*03/07/24 18:45*	*1*
o-Terphenyl	*93*		*70 - 130*	*03/06/24 16:51*	*03/07/24 18:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**47.0**		5.00		mg/Kg			03/08/24 23:51	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-1 (2')

Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-13
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/07/24 12:23	03/08/24 00:40	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/07/24 12:23	03/08/24 00:40	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/07/24 12:23	03/08/24 00:40	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/07/24 12:23	03/08/24 00:40	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/07/24 12:23	03/08/24 00:40	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/07/24 12:23	03/08/24 00:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*03/07/24 12:23*	*03/08/24 00:40*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*03/07/24 12:23*	*03/08/24 00:40*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/08/24 00:40	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/07/24 19:07	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/24 16:51	03/07/24 19:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/24 16:51	03/07/24 19:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/24 16:51	03/07/24 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*03/06/24 16:51*	*03/07/24 19:07*	*1*
o-Terphenyl	*92*		*70 - 130*	*03/06/24 16:51*	*03/07/24 19:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**520**		5.02		mg/Kg			03/08/24 23:57	1

Client Sample ID: SW-2 (2')

Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-14
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/08/24 01:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/08/24 01:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/08/24 01:06	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/07/24 12:23	03/08/24 01:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/08/24 01:06	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/07/24 12:23	03/08/24 01:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*03/07/24 12:23*	*03/08/24 01:06*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*03/07/24 12:23*	*03/08/24 01:06*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-2 (2')

Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-14
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/08/24 01:06	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			03/08/24 13:39	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		03/08/24 10:24	03/08/24 13:39	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/08/24 10:24	03/08/24 13:39	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/08/24 10:24	03/08/24 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*1*	*S1-*	*70 - 130*	*03/08/24 10:24*	*03/08/24 13:39*	*1*
o-Terphenyl	*0.5*	*S1-*	*70 - 130*	*03/08/24 10:24*	*03/08/24 13:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**563**		5.03		mg/Kg			03/08/24 23:14	1

Client Sample ID: SW-3 (2')

Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-15
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/06/24 14:08	03/07/24 07:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/06/24 14:08	03/07/24 07:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/06/24 14:08	03/07/24 07:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/06/24 14:08	03/07/24 07:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/06/24 14:08	03/07/24 07:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/06/24 14:08	03/07/24 07:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*03/06/24 14:08*	*03/07/24 07:00*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*03/06/24 14:08*	*03/07/24 07:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/07/24 07:00	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			03/08/24 14:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		03/08/24 10:24	03/08/24 14:00	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		03/08/24 10:24	03/08/24 14:00	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-3 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-15
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		03/08/24 10:24	03/08/24 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*03/08/24 10:24*	*03/08/24 14:00*	*1*
o-Terphenyl	*90*		*70 - 130*	*03/08/24 10:24*	*03/08/24 14:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**391**		5.04		mg/Kg			03/08/24 23:20	1

Client Sample ID: SW-4 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-16
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/06/24 14:08	03/07/24 07:20	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/24 14:08	03/07/24 07:20	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/24 14:08	03/07/24 07:20	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/06/24 14:08	03/07/24 07:20	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/24 14:08	03/07/24 07:20	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/06/24 14:08	03/07/24 07:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*	*03/06/24 14:08*	*03/07/24 07:20*	*1*
1,4-Difluorobenzene (Surr)	*127*		*70 - 130*	*03/06/24 14:08*	*03/07/24 07:20*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/07/24 07:20	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			03/08/24 14:22	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		03/08/24 10:24	03/08/24 14:22	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		03/08/24 10:24	03/08/24 14:22	1
Oll Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		03/08/24 10:24	03/08/24 14:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*03/08/24 10:24*	*03/08/24 14:22*	*1*
o-Terphenyl	*103*		*70 - 130*	*03/08/24 10:24*	*03/08/24 14:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**244**		4.97		mg/Kg			03/08/24 23:25	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-5 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-17
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/06/24 14:08	03/07/24 07:41	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/06/24 14:08	03/07/24 07:41	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/06/24 14:08	03/07/24 07:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/06/24 14:08	03/07/24 07:41	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/06/24 14:08	03/07/24 07:41	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/06/24 14:08	03/07/24 07:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*03/06/24 14:08*	*03/07/24 07:41*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*03/06/24 14:08*	*03/07/24 07:41*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/07/24 07:41	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/08/24 15:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/08/24 10:24	03/08/24 15:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/08/24 10:24	03/08/24 15:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/08/24 10:24	03/08/24 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*03/08/24 10:24*	*03/08/24 15:06*	*1*
o-Terphenyl	*89*		*70 - 130*	*03/08/24 10:24*	*03/08/24 15:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**477**		4.98		mg/Kg			03/08/24 23:31	1

Client Sample ID: SW-6 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-18
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/06/24 14:08	03/07/24 08:01	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/24 14:08	03/07/24 08:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/24 14:08	03/07/24 08:01	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/06/24 14:08	03/07/24 08:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/24 14:08	03/07/24 08:01	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/06/24 14:08	03/07/24 08:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*03/06/24 14:08*	*03/07/24 08:01*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*03/06/24 14:08*	*03/07/24 08:01*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-6 (2')

Lab Sample ID: 880-40252-18
Matrix: Solid
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/07/24 08:01	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/08/24 15:28	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/08/24 10:24	03/08/24 15:28	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/08/24 10:24	03/08/24 15:28	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/08/24 10:24	03/08/24 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*03/08/24 10:24*	*03/08/24 15:28*	*1*
o-Terphenyl	*104*		*70 - 130*	*03/08/24 10:24*	*03/08/24 15:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**71.7**		4.96		mg/Kg			03/08/24 23:37	1

Client Sample ID: SW-7 (2')

Lab Sample ID: 880-40252-19
Matrix: Solid
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/06/24 14:08	03/07/24 08:22	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/24 14:08	03/07/24 08:22	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/24 14:08	03/07/24 08:22	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/06/24 14:08	03/07/24 08:22	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/24 14:08	03/07/24 08:22	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/06/24 14:08	03/07/24 08:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*03/06/24 14:08*	*03/07/24 08:22*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*03/06/24 14:08*	*03/07/24 08:22*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/07/24 08:22	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/08/24 15:51	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/08/24 10:24	03/08/24 15:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/08/24 10:24	03/08/24 15:51	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-7 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-19
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/08/24 10:24	03/08/24 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*03/08/24 10:24*	*03/08/24 15:51*	*1*
o-Terphenyl	*89*		*70 - 130*	*03/08/24 10:24*	*03/08/24 15:51*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**533**		5.03		mg/Kg			03/08/24 23:42	1

Client Sample ID: SW-8 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-20
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/24 14:08	03/07/24 08:42	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/24 14:08	03/07/24 08:42	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/24 14:08	03/07/24 08:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/24 14:08	03/07/24 08:42	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/24 14:08	03/07/24 08:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/24 14:08	03/07/24 08:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*	*03/06/24 14:08*	*03/07/24 08:42*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*03/06/24 14:08*	*03/07/24 08:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/24 08:42	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			03/08/24 16:13	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		03/08/24 10:24	03/08/24 16:13	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		03/08/24 10:24	03/08/24 16:13	1
Oll Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		03/08/24 10:24	03/08/24 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*03/08/24 10:24*	*03/08/24 16:13*	*1*
o-Terphenyl	*99*		*70 - 130*	*03/08/24 10:24*	*03/08/24 16:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**470**		5.02		mg/Kg			03/08/24 23:48	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-9 (2')

Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-21
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:21	03/07/24 08:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:21	03/07/24 08:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:21	03/07/24 08:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/04/24 16:21	03/07/24 08:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:21	03/07/24 08:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/04/24 16:21	03/07/24 08:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*03/04/24 16:21*	*03/07/24 08:43*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/04/24 16:21*	*03/07/24 08:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/07/24 08:43	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			03/10/24 13:00	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		03/09/24 11:45	03/10/24 13:00	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		03/09/24 11:45	03/10/24 13:00	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		03/09/24 11:45	03/10/24 13:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*137*	*S1+*	*70 - 130*	*03/09/24 11:45*	*03/10/24 13:00*	*1*
o-Terphenyl	*119*		*70 - 130*	*03/09/24 11:45*	*03/10/24 13:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**270**		5.02		mg/Kg			03/09/24 04:54	1

Client Sample ID: SW-10 (2')

Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-22
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/04/24 16:21	03/07/24 09:04	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/04/24 16:21	03/07/24 09:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/04/24 16:21	03/07/24 09:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/04/24 16:21	03/07/24 09:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/04/24 16:21	03/07/24 09:04	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/04/24 16:21	03/07/24 09:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/04/24 16:21*	*03/07/24 09:04*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/04/24 16:21*	*03/07/24 09:04*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-10 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-22
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/07/24 09:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**52.0**		49.9		mg/Kg			03/10/24 13:22	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/09/24 11:45	03/10/24 13:22	1
Diesel Range Organics (Over C10-C28)	**52.0**		49.9		mg/Kg		03/09/24 11:45	03/10/24 13:22	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/09/24 11:45	03/10/24 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*137*	*S1+*	*70 - 130*	*03/09/24 11:45*	*03/10/24 13:22*	*1*
o-Terphenyl	*123*		*70 - 130*	*03/09/24 11:45*	*03/10/24 13:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**260**		5.03		mg/Kg			03/09/24 05:11	1

Client Sample ID: SW-11 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-23
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/04/24 16:21	03/07/24 09:24	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/04/24 16:21	03/07/24 09:24	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/04/24 16:21	03/07/24 09:24	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/04/24 16:21	03/07/24 09:24	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/04/24 16:21	03/07/24 09:24	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/04/24 16:21	03/07/24 09:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*03/04/24 16:21*	*03/07/24 09:24*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/04/24 16:21*	*03/07/24 09:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/07/24 09:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/10/24 13:45	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/09/24 11:45	03/10/24 13:45	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/09/24 11:45	03/10/24 13:45	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-11 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-23
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/09/24 11:45	03/10/24 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*03/09/24 11:45*	*03/10/24 13:45*	*1*
o-Terphenyl	*111*		*70 - 130*	*03/09/24 11:45*	*03/10/24 13:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**318**		4.98		mg/Kg			03/09/24 05:16	1

Client Sample ID: SW-12 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-24
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:21	03/07/24 09:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:21	03/07/24 09:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:21	03/07/24 09:45	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/04/24 16:21	03/07/24 09:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:21	03/07/24 09:45	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/04/24 16:21	03/07/24 09:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*03/04/24 16:21*	*03/07/24 09:45*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/04/24 16:21*	*03/07/24 09:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/07/24 09:45	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			03/10/24 14:06	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		03/09/24 11:45	03/10/24 14:06	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		03/09/24 11:45	03/10/24 14:06	1
Oll Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		03/09/24 11:45	03/10/24 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*03/09/24 11:45*	*03/10/24 14:06*	*1*
o-Terphenyl	*115*		*70 - 130*	*03/09/24 11:45*	*03/10/24 14:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**236**		5.00		mg/Kg			03/09/24 05:22	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-13 (2')

Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-25
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/04/24 16:21	03/07/24 10:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/04/24 16:21	03/07/24 10:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/04/24 16:21	03/07/24 10:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/04/24 16:21	03/07/24 10:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/04/24 16:21	03/07/24 10:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/04/24 16:21	03/07/24 10:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*03/04/24 16:21*	*03/07/24 10:05*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*03/04/24 16:21*	*03/07/24 10:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/24 10:05	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			03/10/24 14:28	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		03/09/24 11:45	03/10/24 14:28	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		03/09/24 11:45	03/10/24 14:28	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		03/09/24 11:45	03/10/24 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*03/09/24 11:45*	*03/10/24 14:28*	*1*
o-Terphenyl	*110*		*70 - 130*	*03/09/24 11:45*	*03/10/24 14:28*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**158**		5.04		mg/Kg			03/09/24 05:28	1

Client Sample ID: SW-14 (2')

Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-26
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/04/24 16:21	03/07/24 10:26	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/04/24 16:21	03/07/24 10:26	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/04/24 16:21	03/07/24 10:26	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/04/24 16:21	03/07/24 10:26	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/04/24 16:21	03/07/24 10:26	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/04/24 16:21	03/07/24 10:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*03/04/24 16:21*	*03/07/24 10:26*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/04/24 16:21*	*03/07/24 10:26*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-14 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-26
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/07/24 10:26	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			03/10/24 14:50	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		03/09/24 11:45	03/10/24 14:50	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		03/09/24 11:45	03/10/24 14:50	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		03/09/24 11:45	03/10/24 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*03/09/24 11:45*	*03/10/24 14:50*	*1*
o-Terphenyl	*120*		*70 - 130*	*03/09/24 11:45*	*03/10/24 14:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**159**		5.01		mg/Kg			03/09/24 05:45	1

Client Sample ID: SW-15 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-27
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/04/24 16:21	03/07/24 10:46	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/04/24 16:21	03/07/24 10:46	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/04/24 16:21	03/07/24 10:46	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/04/24 16:21	03/07/24 10:46	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/04/24 16:21	03/07/24 10:46	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/04/24 16:21	03/07/24 10:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*03/04/24 16:21*	*03/07/24 10:46*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/04/24 16:21*	*03/07/24 10:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/07/24 10:46	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.5	U	50.5		mg/Kg			03/10/24 15:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.5	U	50.5		mg/Kg		03/09/24 11:45	03/10/24 15:11	1
Diesel Range Organics (Over C10-C28)	<50.5	U	50.5		mg/Kg		03/09/24 11:45	03/10/24 15:11	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-15 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-27
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.5	U	50.5		mg/Kg		03/09/24 11:45	03/10/24 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*146*	*S1+*	*70 - 130*	*03/09/24 11:45*	*03/10/24 15:11*	*1*
o-Terphenyl	*132*	*S1+*	*70 - 130*	*03/09/24 11:45*	*03/10/24 15:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**444**		4.99		mg/Kg			03/09/24 05:50	1

Client Sample ID: SW-16 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-28
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/04/24 16:21	03/07/24 11:07	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/04/24 16:21	03/07/24 11:07	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/04/24 16:21	03/07/24 11:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/04/24 16:21	03/07/24 11:07	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/04/24 16:21	03/07/24 11:07	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/04/24 16:21	03/07/24 11:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/04/24 16:21*	*03/07/24 11:07*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*03/04/24 16:21*	*03/07/24 11:07*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/24 11:07	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**131**		49.7		mg/Kg			03/10/24 15:33	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/09/24 11:45	03/10/24 15:33	1
Diesel Range Organics (Over C10-C28)	**131**		49.7		mg/Kg		03/09/24 11:45	03/10/24 15:33	1
Oll Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/09/24 11:45	03/10/24 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*03/09/24 11:45*	*03/10/24 15:33*	*1*
o-Terphenyl	*118*		*70 - 130*	*03/09/24 11:45*	*03/10/24 15:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**125**		4.99		mg/Kg			03/09/24 05:56	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-17 (2')

Lab Sample ID: 880-40252-29
Matrix: Solid
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:21	03/07/24 11:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:21	03/07/24 11:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:21	03/07/24 11:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/04/24 16:21	03/07/24 11:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:21	03/07/24 11:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/04/24 16:21	03/07/24 11:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*03/04/24 16:21*	*03/07/24 11:28*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/04/24 16:21*	*03/07/24 11:28*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/07/24 11:28	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/10/24 15:54	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/09/24 11:45	03/10/24 15:54	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/09/24 11:45	03/10/24 15:54	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/09/24 11:45	03/10/24 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*03/09/24 11:45*	*03/10/24 15:54*	*1*
o-Terphenyl	*112*		*70 - 130*	*03/09/24 11:45*	*03/10/24 15:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**139**		4.98		mg/Kg			03/09/24 06:02	1

Client Sample ID: SW-18 (2')

Lab Sample ID: 880-40252-30
Matrix: Solid
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/06/24 14:08	03/07/24 09:03	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/06/24 14:08	03/07/24 09:03	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/06/24 14:08	03/07/24 09:03	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/06/24 14:08	03/07/24 09:03	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/06/24 14:08	03/07/24 09:03	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/06/24 14:08	03/07/24 09:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*	*03/06/24 14:08*	*03/07/24 09:03*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*03/06/24 14:08*	*03/07/24 09:03*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-18 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-30
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/07/24 09:03	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/10/24 16:37	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/09/24 11:45	03/10/24 16:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/09/24 11:45	03/10/24 16:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/09/24 11:45	03/10/24 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*03/09/24 11:45*	*03/10/24 16:37*	*1*
o-Terphenyl	*116*		*70 - 130*	*03/09/24 11:45*	*03/10/24 16:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**99.0**		5.02		mg/Kg			03/09/24 06:08	1

Client Sample ID: SW-19 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-31
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/24 14:08	03/07/24 09:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/24 14:08	03/07/24 09:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/24 14:08	03/07/24 09:23	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/24 14:08	03/07/24 09:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/24 14:08	03/07/24 09:23	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/24 14:08	03/07/24 09:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*03/06/24 14:08*	*03/07/24 09:23*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*03/06/24 14:08*	*03/07/24 09:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/07/24 09:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.4	U	50.4		mg/Kg			03/10/24 11:54	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	50.4		mg/Kg		03/09/24 11:45	03/10/24 11:54	1
Diesel Range Organics (Over C10-C28)	<50.4	U	50.4		mg/Kg		03/09/24 11:45	03/10/24 11:54	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-19 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-31
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.4	U	50.4		mg/Kg		03/09/24 11:45	03/10/24 11:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*03/09/24 11:45*	*03/10/24 11:54*	*1*
o-Terphenyl	*112*		*70 - 130*	*03/09/24 11:45*	*03/10/24 11:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**340**		5.05		mg/Kg			03/09/24 06:13	1

Client Sample ID: SW-20 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-32
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/06/24 14:08	03/07/24 09:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/06/24 14:08	03/07/24 09:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/06/24 14:08	03/07/24 09:44	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/06/24 14:08	03/07/24 09:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/06/24 14:08	03/07/24 09:44	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/06/24 14:08	03/07/24 09:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*03/06/24 14:08*	*03/07/24 09:44*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*03/06/24 14:08*	*03/07/24 09:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/07/24 09:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/10/24 19:11	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/09/24 11:45	03/10/24 19:11	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/09/24 11:45	03/10/24 19:11	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/09/24 11:45	03/10/24 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*03/09/24 11:45*	*03/10/24 19:11*	*1*
o-Terphenyl	*108*		*70 - 130*	*03/09/24 11:45*	*03/10/24 19:11*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**468**		5.05		mg/Kg			03/09/24 06:31	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-21 (2')

Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-33
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/07/24 08:48	03/07/24 10:04	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/07/24 08:48	03/07/24 10:04	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/07/24 08:48	03/07/24 10:04	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/07/24 08:48	03/07/24 10:04	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/07/24 08:48	03/07/24 10:04	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/07/24 08:48	03/07/24 10:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*03/07/24 08:48*	*03/07/24 10:04*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*03/07/24 08:48*	*03/07/24 10:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/07/24 10:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			03/10/24 19:32	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		03/09/24 11:45	03/10/24 19:32	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		03/09/24 11:45	03/10/24 19:32	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		03/09/24 11:45	03/10/24 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*136*	*S1+*	*70 - 130*	*03/09/24 11:45*	*03/10/24 19:32*	*1*
o-Terphenyl	*117*		*70 - 130*	*03/09/24 11:45*	*03/10/24 19:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**191**		5.03		mg/Kg			03/09/24 06:36	1

Client Sample ID: SW-22 (2')

Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-34
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U *+	0.00199		mg/Kg		03/05/24 13:30	03/06/24 03:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/05/24 13:30	03/06/24 03:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/05/24 13:30	03/06/24 03:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/05/24 13:30	03/06/24 03:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/05/24 13:30	03/06/24 03:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/05/24 13:30	03/06/24 03:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/05/24 13:30*	*03/06/24 03:55*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*03/05/24 13:30*	*03/06/24 03:55*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-22 (2')

Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-34

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/06/24 03:55	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/08/24 18:21	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		03/08/24 10:24	03/08/24 18:21	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/08/24 10:24	03/08/24 18:21	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/08/24 10:24	03/08/24 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*03/08/24 10:24*	*03/08/24 18:21*	*1*
o-Terphenyl	*89*		*70 - 130*	*03/08/24 10:24*	*03/08/24 18:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**175**		5.02		mg/Kg			03/09/24 06:53	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-40191-A-1-C MS	Matrix Spike	94	100
880-40191-A-1-D MSD	Matrix Spike Duplicate	101	101
880-40212-A-1-E MS	Matrix Spike	106	92
880-40212-A-1-F MSD	Matrix Spike Duplicate	115	92
880-40252-1	CS-1 (2')	104	97
880-40252-1 MS	CS-1 (2')	106	94
880-40252-1 MSD	CS-1 (2')	113	94
880-40252-2	CS-2 (2')	97	98
880-40252-3	CS-3 (2')	105	102
880-40252-4	CS-4 (2')	104	101
880-40252-5	CS-5 (2')	73	88
880-40252-6	CS-6 (2')	102	100
880-40252-7	CS-7 (2')	108	101
880-40252-8	CS-8 (2')	116	85
880-40252-9	CS-9 (2')	105	83
880-40252-10	CS-10 (2')	120	85
880-40252-11	CS-11 (2')	126	88
880-40252-12	CS-12 (2')	127	91
880-40252-13	SW-1 (2')	120	84
880-40252-14	SW-2 (2')	120	84
880-40252-15	SW-3 (2')	74	90
880-40252-16	SW-4 (2')	119	127
880-40252-17	SW-5 (2')	80	82
880-40252-18	SW-6 (2')	81	83
880-40252-19	SW-7 (2')	80	84
880-40252-20	SW-8 (2')	79	84
880-40252-21	SW-9 (2')	117	98
880-40252-22	SW-10 (2')	105	102
880-40252-23	SW-11 (2')	107	102
880-40252-24	SW-12 (2')	110	101
880-40252-25	SW-13 (2')	106	99
880-40252-26	SW-14 (2')	109	100
880-40252-27	SW-15 (2')	103	98
880-40252-28	SW-16 (2')	104	100
880-40252-29	SW-17 (2')	111	101
880-40252-30	SW-18 (2')	82	93
880-40252-31	SW-19 (2')	96	88
880-40252-32	SW-20 (2')	84	76
880-40252-33	SW-21 (2')	85	90
880-40252-34	SW-22 (2')	105	106
880-40336-A-1-A MS	Matrix Spike	108	99
880-40336-A-1-B MSD	Matrix Spike Duplicate	105	104
880-40356-A-1-B MS	Matrix Spike	100	110
880-40356-A-1-C MSD	Matrix Spike Duplicate	97	100
890-6320-A-21-D MS	Matrix Spike	113	92
890-6320-A-21-E MSD	Matrix Spike Duplicate	125	84
LCS 880-74689/1-A	Lab Control Sample	94	104
LCS 880-74701/1-A	Lab Control Sample	114	93
LCS 880-74704/1-A	Lab Control Sample	104	98

Surrogate Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
LCS 880-74842/1-A	Lab Control Sample	99	103
LCS 880-74896/1-A	Lab Control Sample	106	111
LCS 880-74999/1-A	Lab Control Sample	111	96
LCSD 880-74689/2-A	Lab Control Sample Dup	105	99
LCSD 880-74701/2-A	Lab Control Sample Dup	115	94
LCSD 880-74704/2-A	Lab Control Sample Dup	103	97
LCSD 880-74842/2-A	Lab Control Sample Dup	103	105
LCSD 880-74896/2-A	Lab Control Sample Dup	101	110
LCSD 880-74999/2-A	Lab Control Sample Dup	117	97
MB 880-74652/5-A	Method Blank	77	98
MB 880-74688/5-A	Method Blank	77	94
MB 880-74689/5-A	Method Blank	78	98
MB 880-74701/5-A	Method Blank	80	93
MB 880-74704/5-A	Method Blank	78	95
MB 880-74837/5-A	Method Blank	74	92
MB 880-74842/5-A	Method Blank	125	133 S1+
MB 880-74896/5-A	Method Blank	74	86
MB 880-74999/5-A	Method Blank	70	88

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-40252-1	CS-1 (2')	118	107
880-40252-1 MS	CS-1 (2')	105	85
880-40252-1 MSD	CS-1 (2')	125	100
880-40252-2	CS-2 (2')	124	110
880-40252-3	CS-3 (2')	99	86
880-40252-4	CS-4 (2')	108	98
880-40252-5	CS-5 (2')	97	82
880-40252-6	CS-6 (2')	102	90
880-40252-7	CS-7 (2')	126	110
880-40252-8	CS-8 (2')	98	85
880-40252-9	CS-9 (2')	98	87
880-40252-10	CS-10 (2')	128	114
880-40252-11	CS-11 (2')	118	103
880-40252-12	CS-12 (2')	115	93
880-40252-13	SW-1 (2')	105	92
880-40252-14	SW-2 (2')	1 S1-	0.5 S1-
880-40252-15	SW-3 (2')	100	90
880-40252-16	SW-4 (2')	112	103
880-40252-17	SW-5 (2')	101	89
880-40252-18	SW-6 (2')	116	104
880-40252-19	SW-7 (2')	99	89
880-40252-20	SW-8 (2')	110	99

Surrogate Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-40252-21	SW-9 (2')	137 S1+	119
880-40252-22	SW-10 (2')	137 S1+	123
880-40252-23	SW-11 (2')	126	111
880-40252-24	SW-12 (2')	132 S1+	115
880-40252-25	SW-13 (2')	129	110
880-40252-26	SW-14 (2')	132 S1+	120
880-40252-27	SW-15 (2')	146 S1+	132 S1+
880-40252-28	SW-16 (2')	132 S1+	118
880-40252-29	SW-17 (2')	123	112
880-40252-30	SW-18 (2')	132 S1+	116
880-40252-31	SW-19 (2')	126	112
880-40252-31 MS	SW-19 (2')	125	105
880-40252-31 MSD	SW-19 (2')	124	103
880-40252-32	SW-20 (2')	126	108
880-40252-33	SW-21 (2')	136 S1+	117
880-40252-34	SW-22 (2')	99	89
890-6320-A-21-H MS	Matrix Spike	107	87
890-6320-A-21-I MSD	Matrix Spike Duplicate	123	98
LCS 880-74935/2-A	Lab Control Sample	27 S1-	112
LCS 880-75057/2-A	Lab Control Sample	107	120
LCS 880-75153/2-A	Lab Control Sample	113	120
LCSD 880-74935/3-A	Lab Control Sample Dup	23 S1-	104
LCSD 880-75057/3-A	Lab Control Sample Dup	104	109
LCSD 880-75153/3-A	Lab Control Sample Dup	103	105
MB 880-74935/1-A	Method Blank	112	111
MB 880-75057/1-A	Method Blank	133 S1+	126
MB 880-75153/1-A	Method Blank	107	104

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-74652/5-A
Matrix: Solid
Analysis Batch: 74750

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74652

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 13:22	03/05/24 11:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 13:22	03/05/24 11:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 13:22	03/05/24 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/04/24 13:22	03/05/24 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 13:22	03/05/24 11:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/04/24 13:22	03/05/24 11:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*03/04/24 13:22*	*03/05/24 11:33*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/04/24 13:22*	*03/05/24 11:33*	*1*

Lab Sample ID: MB 880-74688/5-A
Matrix: Solid
Analysis Batch: 74894

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74688

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 15:17	03/06/24 16:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 15:17	03/06/24 16:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 15:17	03/06/24 16:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/04/24 15:17	03/06/24 16:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 15:17	03/06/24 16:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/04/24 15:17	03/06/24 16:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*70 - 130*	*03/04/24 15:17*	*03/06/24 16:17*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*03/04/24 15:17*	*03/06/24 16:17*	*1*

Lab Sample ID: MB 880-74689/5-A
Matrix: Solid
Analysis Batch: 74750

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74689

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 15:22	03/05/24 22:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 15:22	03/05/24 22:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 15:22	03/05/24 22:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/04/24 15:22	03/05/24 22:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 15:22	03/05/24 22:18	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/04/24 15:22	03/05/24 22:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*03/04/24 15:22*	*03/05/24 22:18*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/04/24 15:22*	*03/05/24 22:18*	*1*

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-74689/1-A
Matrix: Solid
Analysis Batch: 74750

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74689

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1404	*+	mg/Kg		140	70 - 130		
Toluene			0.100	0.1078		mg/Kg		108	70 - 130		
Ethylbenzene			0.100	0.1083		mg/Kg		108	70 - 130		
m-Xylene & p-Xylene			0.200	0.2137		mg/Kg		107	70 - 130		
o-Xylene			0.100	0.1036		mg/Kg		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-74689/2-A
Matrix: Solid
Analysis Batch: 74750

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 74689

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1235		mg/Kg		123	70 - 130	13	35
Toluene			0.100	0.1105		mg/Kg		111	70 - 130	2	35
Ethylbenzene			0.100	0.1170		mg/Kg		117	70 - 130	8	35
m-Xylene & p-Xylene			0.200	0.2376		mg/Kg		119	70 - 130	11	35
o-Xylene			0.100	0.1159		mg/Kg		116	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-40191-A-1-C MS
Matrix: Solid
Analysis Batch: 74750

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 74689

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U *+	0.101	0.07447		mg/Kg		74	70 - 130		
Toluene	<0.00199	U F1	0.101	0.05837	F1	mg/Kg		58	70 - 130		
Ethylbenzene	<0.00199	U F1	0.101	0.06249	F1	mg/Kg		62	70 - 130		
m-Xylene & p-Xylene	<0.00398	U F1	0.202	0.1174	F1	mg/Kg		58	70 - 130		
o-Xylene	<0.00199	U F1	0.101	0.06176	F1	mg/Kg		61	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 880-40191-A-1-D MSD
Matrix: Solid
Analysis Batch: 74750

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 74689

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U *+	0.100	0.08270		mg/Kg		83	70 - 130	10	35
Toluene	<0.00199	U F1	0.100	0.06391	F1	mg/Kg		64	70 - 130	9	35
Ethylbenzene	<0.00199	U F1	0.100	0.06490	F1	mg/Kg		65	70 - 130	4	35

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-40191-A-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 74750 — **Prep Batch: 74689**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1212	F1	mg/Kg		61	70 - 130	3	35
o-Xylene	<0.00199	U F1	0.100	0.06397	F1	mg/Kg		64	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 880-74701/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 74894 — **Prep Batch: 74701**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:21	03/07/24 03:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:21	03/07/24 03:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:21	03/07/24 03:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/04/24 16:21	03/07/24 03:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:21	03/07/24 03:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/04/24 16:21	03/07/24 03:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*	*03/04/24 16:21*	*03/07/24 03:34*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*03/04/24 16:21*	*03/07/24 03:34*	*1*

Lab Sample ID: LCS 880-74701/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 74894 — **Prep Batch: 74701**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1021		mg/Kg		102	70 - 130
Toluene	0.100	0.1109		mg/Kg		111	70 - 130
Ethylbenzene	0.100	0.1192		mg/Kg		119	70 - 130
m-Xylene & p-Xylene	0.200	0.2488		mg/Kg		124	70 - 130
o-Xylene	0.100	0.1268		mg/Kg		127	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 880-74701/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 74894 — **Prep Batch: 74701**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1058		mg/Kg		106	70 - 130	4	35
Toluene	0.100	0.1130		mg/Kg		113	70 - 130	2	35
Ethylbenzene	0.100	0.1191		mg/Kg		119	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2477		mg/Kg		124	70 - 130	0	35
o-Xylene	0.100	0.1263		mg/Kg		126	70 - 130	0	35

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-40212-A-1-E MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 74894 — **Prep Batch: 74701**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.07828		mg/Kg		79	70 - 130
Toluene	<0.00199	U	0.0996	0.08272		mg/Kg		83	70 - 130
Ethylbenzene	<0.00199	U	0.0996	0.08491		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1743		mg/Kg		87	70 - 130
o-Xylene	<0.00199	U	0.0996	0.08872		mg/Kg		89	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 880-40212-A-1-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 74894 — **Prep Batch: 74701**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.08929		mg/Kg		89	70 - 130	13	35
Toluene	<0.00199	U	0.100	0.09829		mg/Kg		98	70 - 130	17	35
Ethylbenzene	<0.00199	U	0.100	0.1037		mg/Kg		103	70 - 130	20	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2139		mg/Kg		107	70 - 130	20	35
o-Xylene	<0.00199	U	0.100	0.1075		mg/Kg		107	70 - 130	19	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: MB 880-74704/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 75007 — **Prep Batch: 74704**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:29	03/07/24 15:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:29	03/07/24 15:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:29	03/07/24 15:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/04/24 16:29	03/07/24 15:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 16:29	03/07/24 15:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/04/24 16:29	03/07/24 15:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130	03/04/24 16:29	03/07/24 15:37	1
1,4-Difluorobenzene (Surr)	95		70 - 130	03/04/24 16:29	03/07/24 15:37	1

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-74704/1-A
Matrix: Solid
Analysis Batch: 75007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74704

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1186		mg/Kg		119	70 - 130		
Toluene			0.100	0.1086		mg/Kg		109	70 - 130		
Ethylbenzene			0.100	0.1101		mg/Kg		110	70 - 130		
m-Xylene & p-Xylene			0.200	0.2223		mg/Kg		111	70 - 130		
o-Xylene			0.100	0.1110		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-74704/2-A
Matrix: Solid
Analysis Batch: 75007

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 74704

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1263		mg/Kg		126	70 - 130	6	35
Toluene			0.100	0.1146		mg/Kg		115	70 - 130	5	35
Ethylbenzene			0.100	0.1159		mg/Kg		116	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2331		mg/Kg		117	70 - 130	5	35
o-Xylene			0.100	0.1163		mg/Kg		116	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 880-40252-1 MS
Matrix: Solid
Analysis Batch: 75007

Client Sample ID: CS-1 (2')
Prep Type: Total/NA
Prep Batch: 74704

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.101	0.08022		mg/Kg		80	70 - 130		
Toluene	<0.00199	U	0.101	0.07692		mg/Kg		76	70 - 130		
Ethylbenzene	<0.00199	U	0.101	0.07554		mg/Kg		75	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1516		mg/Kg		75	70 - 130		
o-Xylene	<0.00199	U	0.101	0.07666		mg/Kg		76	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 880-40252-1 MSD
Matrix: Solid
Analysis Batch: 75007

Client Sample ID: CS-1 (2')
Prep Type: Total/NA
Prep Batch: 74704

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.08118		mg/Kg		81	70 - 130	1	35
Toluene	<0.00199	U	0.100	0.08050		mg/Kg		81	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.100	0.07694		mg/Kg		77	70 - 130	2	35

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-40252-1 MSD
Matrix: Solid
Analysis Batch: 75007

Client Sample ID: CS-1 (2')
Prep Type: Total/NA
Prep Batch: 74704

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1543		mg/Kg		77	70 - 130	2	35
o-Xylene	<0.00199	U	0.100	0.07726		mg/Kg		77	70 - 130	1	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: MB 880-74837/5-A
Matrix: Solid
Analysis Batch: 74855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74837

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:03	03/06/24 11:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:03	03/06/24 11:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:03	03/06/24 11:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/05/24 17:03	03/06/24 11:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:03	03/06/24 11:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/05/24 17:03	03/06/24 11:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*03/05/24 17:03*	*03/06/24 11:10*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*03/05/24 17:03*	*03/06/24 11:10*	*1*

Lab Sample ID: MB 880-74842/5-A
Matrix: Solid
Analysis Batch: 74854

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74842

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:12	03/06/24 11:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:12	03/06/24 11:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:12	03/06/24 11:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/05/24 17:12	03/06/24 11:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/05/24 17:12	03/06/24 11:39	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/05/24 17:12	03/06/24 11:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*03/05/24 17:12*	*03/06/24 11:39*	*1*
1,4-Difluorobenzene (Surr)	*133*	*S1+*	*70 - 130*	*03/05/24 17:12*	*03/06/24 11:39*	*1*

Lab Sample ID: LCS 880-74842/1-A
Matrix: Solid
Analysis Batch: 74854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74842

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1260		mg/Kg		126	70 - 130
Toluene	0.100	0.1134		mg/Kg		113	70 - 130
Ethylbenzene	0.100	0.1148		mg/Kg		115	70 - 130
m-Xylene & p-Xylene	0.200	0.2398		mg/Kg		120	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-74842/1-A
Matrix: Solid
Analysis Batch: 74854

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74842

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.1094		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-74842/2-A
Matrix: Solid
Analysis Batch: 74854

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 74842

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1236		mg/Kg		124	70 - 130	2	35
Toluene			0.100	0.1170		mg/Kg		117	70 - 130	3	35
Ethylbenzene			0.100	0.1151		mg/Kg		115	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.2459		mg/Kg		123	70 - 130	3	35
o-Xylene			0.100	0.1149		mg/Kg		115	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-40336-A-1-A MS
Matrix: Solid
Analysis Batch: 74854

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 74842

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00199	U	0.101	0.1126		mg/Kg		111	70 - 130		
Toluene	<0.00199	U	0.101	0.09671		mg/Kg		95	70 - 130		
Ethylbenzene	<0.00199	U	0.101	0.1139		mg/Kg		112	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.202	0.2221		mg/Kg		109	70 - 130		
o-Xylene	<0.00199	U	0.101	0.1016		mg/Kg		100	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-40336-A-1-B MSD
Matrix: Solid
Analysis Batch: 74854

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 74842

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1007		mg/Kg		100	70 - 130	11	35
Toluene	<0.00199	U	0.100	0.08457		mg/Kg		84	70 - 130	13	35
Ethylbenzene	<0.00199	U	0.100	0.09837		mg/Kg		98	70 - 130	15	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1878		mg/Kg		93	70 - 130	17	35
o-Xylene	<0.00199	U	0.100	0.08665		mg/Kg		86	70 - 130	16	35

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-40336-A-1-B MSD
Matrix: Solid
Analysis Batch: 74854

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 74842

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-74896/5-A
Matrix: Solid
Analysis Batch: 74855

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74896

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/24 14:08	03/07/24 02:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/24 14:08	03/07/24 02:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/24 14:08	03/07/24 02:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/06/24 14:08	03/07/24 02:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/24 14:08	03/07/24 02:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/06/24 14:08	03/07/24 02:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	03/06/24 14:08	03/07/24 02:12	1
1,4-Difluorobenzene (Surr)	86		70 - 130	03/06/24 14:08	03/07/24 02:12	1

Lab Sample ID: LCS 880-74896/1-A
Matrix: Solid
Analysis Batch: 74855

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74896

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1021		mg/Kg		102	70 - 130
Toluene	0.100	0.1082		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1095		mg/Kg		109	70 - 130
m-Xylene & p-Xylene	0.200	0.2110		mg/Kg		105	70 - 130
o-Xylene	0.100	0.1214		mg/Kg		121	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-74896/2-A
Matrix: Solid
Analysis Batch: 74855

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 74896

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09310		mg/Kg		93	70 - 130	9	35
Toluene	0.100	0.09878		mg/Kg		99	70 - 130	9	35
Ethylbenzene	0.100	0.09793		mg/Kg		98	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1906		mg/Kg		95	70 - 130	10	35
o-Xylene	0.100	0.1004		mg/Kg		100	70 - 130	19	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-74896/2-A
Matrix: Solid
Analysis Batch: 74855

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 74896

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 880-40356-A-1-B MS
Matrix: Solid
Analysis Batch: 74855

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 74896

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1 F2	0.0996	0.08721		mg/Kg		87	70 - 130
Toluene	<0.00200	U F1	0.0996	0.09142		mg/Kg		92	70 - 130
Ethylbenzene	<0.00200	U F1	0.0996	0.08542		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	<0.00400	U F1	0.199	0.1649		mg/Kg		82	70 - 130
o-Xylene	<0.00200	U F1	0.0996	0.08454		mg/Kg		84	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 880-40356-A-1-C MSD
Matrix: Solid
Analysis Batch: 74855

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 74896

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1 F2	0.100	0.05773	F1 F2	mg/Kg		57	70 - 130	41	35
Toluene	<0.00200	U F1	0.100	0.06671	F1	mg/Kg		66	70 - 130	31	35
Ethylbenzene	<0.00200	U F1	0.100	0.06552	F1	mg/Kg		65	70 - 130	26	35
m-Xylene & p-Xylene	<0.00400	U F1	0.201	0.1231	F1	mg/Kg		61	70 - 130	29	35
o-Xylene	<0.00200	U F1	0.100	0.06546	F1	mg/Kg		65	70 - 130	25	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: MB 880-74999/5-A
Matrix: Solid
Analysis Batch: 75000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74999

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 17:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 17:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 17:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/24 12:23	03/07/24 17:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/24 12:23	03/07/24 17:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/24 12:23	03/07/24 17:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130	03/07/24 12:23	03/07/24 17:35	1
1,4-Difluorobenzene (Surr)	88		70 - 130	03/07/24 12:23	03/07/24 17:35	1

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-74999/1-A
Matrix: Solid
Analysis Batch: 75000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74999

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1195		mg/Kg		120	70 - 130		
Toluene			0.100	0.1154		mg/Kg		115	70 - 130		
Ethylbenzene			0.100	0.1241		mg/Kg		124	70 - 130		
m-Xylene & p-Xylene			0.200	0.2496		mg/Kg		125	70 - 130		
o-Xylene			0.100	0.1221		mg/Kg		122	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-74999/2-A
Matrix: Solid
Analysis Batch: 75000

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 74999

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1178		mg/Kg		118	70 - 130	1	35
Toluene			0.100	0.1185		mg/Kg		119	70 - 130	3	35
Ethylbenzene			0.100	0.1248		mg/Kg		125	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2500		mg/Kg		125	70 - 130	0	35
o-Xylene			0.100	0.1231		mg/Kg		123	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-6320-A-21-D MS
Matrix: Solid
Analysis Batch: 75000

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 74999

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U	0.101	0.1097		mg/Kg		109	70 - 130		
Toluene	<0.00198	U	0.101	0.1128		mg/Kg		112	70 - 130		
Ethylbenzene	<0.00198	U	0.101	0.1208		mg/Kg		120	70 - 130		
m-Xylene & p-Xylene	<0.00396	U F1	0.202	0.2435		mg/Kg		121	70 - 130		
o-Xylene	<0.00198	U F1	0.101	0.1212		mg/Kg		120	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: 890-6320-A-21-E MSD
Matrix: Solid
Analysis Batch: 75000

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 74999

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0998	0.1252		mg/Kg		125	70 - 130	13	35
Toluene	<0.00198	U	0.0998	0.1197		mg/Kg		120	70 - 130	6	35
Ethylbenzene	<0.00198	U	0.0998	0.1290		mg/Kg		129	70 - 130	7	35

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-6320-A-21-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 75000 — **Prep Batch: 74999**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<0.00396	U F1	0.200	0.2605	F1	mg/Kg		131	70 - 130	7	35
o-Xylene	<0.00198	U F1	0.0998	0.1316	F1	mg/Kg		132	70 - 130	8	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-74935/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 74954 — **Prep Batch: 74935**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/06/24 16:51	03/07/24 08:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/06/24 16:51	03/07/24 08:02	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/06/24 16:51	03/07/24 08:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*03/06/24 16:51*	*03/07/24 08:02*	*1*
o-Terphenyl	*111*		*70 - 130*	*03/06/24 16:51*	*03/07/24 08:02*	*1*

Lab Sample ID: LCS 880-74935/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 74954 — **Prep Batch: 74935**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1038		mg/Kg		104	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1016		mg/Kg		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*27*	*S1-*	*70 - 130*
o-Terphenyl	*112*		*70 - 130*

Lab Sample ID: LCSD 880-74935/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 74954 — **Prep Batch: 74935**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1088		mg/Kg		109	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1000	955.9		mg/Kg		96	70 - 130	6	20

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-74935/3-A
Matrix: Solid
Analysis Batch: 74954

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 74935

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	23	S1-	70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: 880-40252-1 MS
Matrix: Solid
Analysis Batch: 74954

Client Sample ID: CS-1 (2')
Prep Type: Total/NA
Prep Batch: 74935

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F2	1010	910.1		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)	54.6		1010	1039		mg/Kg		98	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 880-40252-1 MSD
Matrix: Solid
Analysis Batch: 74954

Client Sample ID: CS-1 (2')
Prep Type: Total/NA
Prep Batch: 74935

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.7	U F2	1010	1131	F2	mg/Kg		108	70 - 130	22	20
Diesel Range Organics (Over C10-C28)	54.6		1010	1244		mg/Kg		118	70 - 130	18	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: MB 880-75057/1-A
Matrix: Solid
Analysis Batch: 75049

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 75057

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/08/24 07:24	03/08/24 07:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/08/24 07:24	03/08/24 07:53	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/08/24 07:24	03/08/24 07:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	133	S1+	70 - 130	03/08/24 07:24	03/08/24 07:53	1
o-Terphenyl	126		70 - 130	03/08/24 07:24	03/08/24 07:53	1

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-75057/2-A
Matrix: Solid
Analysis Batch: 75049

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 75057

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1079		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	972.3		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*107*		*70 - 130*
o-Terphenyl	*120*		*70 - 130*

Lab Sample ID: LCSD 880-75057/3-A
Matrix: Solid
Analysis Batch: 75049

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 75057

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1029		mg/Kg		103	70 - 130	5	20
Diesel Range Organics (Over C10-C28)			1000	926.7		mg/Kg		93	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*109*		*70 - 130*

Lab Sample ID: 890-6320-A-21-H MS
Matrix: Solid
Analysis Batch: 75049

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 75057

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	991.5		mg/Kg		98	70 - 130		
Diesel Range Organics (Over C10-C28)	85.1		1010	1080		mg/Kg		99	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*107*		*70 - 130*
o-Terphenyl	*87*		*70 - 130*

Lab Sample ID: 890-6320-A-21-I MSD
Matrix: Solid
Analysis Batch: 75049

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 75057

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1010	1096		mg/Kg		109	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	85.1		1010	1268		mg/Kg		117	70 - 130	16	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*123*		*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-6320-A-21-I MSD
Matrix: Solid
Analysis Batch: 75049

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 75057

Surrogate	MSD %Recovery	MSD Qualifier	Limits
o-Terphenyl	98		70 - 130

Lab Sample ID: MB 880-75153/1-A
Matrix: Solid
Analysis Batch: 75169

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 75153

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/09/24 11:45	03/10/24 09:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/09/24 11:45	03/10/24 09:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/09/24 11:45	03/10/24 09:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	03/09/24 11:45	03/10/24 09:22	1
o-Terphenyl	104		70 - 130	03/09/24 11:45	03/10/24 09:22	1

Lab Sample ID: LCS 880-75153/2-A
Matrix: Solid
Analysis Batch: 75169

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 75153

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1084		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1008		mg/Kg		101	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: LCSD 880-75153/3-A
Matrix: Solid
Analysis Batch: 75169

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 75153

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1040		mg/Kg		104	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	912.9		mg/Kg		91	70 - 130	10	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	105		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-40252-31 MS
Matrix: Solid
Analysis Batch: 75169

Client Sample ID: SW-19 (2')
Prep Type: Total/NA
Prep Batch: 75153

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	1010	951.1		mg/Kg		90	70 - 130
Diesel Range Organics (Over C10-C28)	<50.4	U	1010	1048		mg/Kg		101	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*125*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: 880-40252-31 MSD
Matrix: Solid
Analysis Batch: 75169

Client Sample ID: SW-19 (2')
Prep Type: Total/NA
Prep Batch: 75153

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.4	U	1010	928.2		mg/Kg		88	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.4	U	1010	1054		mg/Kg		101	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*124*		*70 - 130*
o-Terphenyl	*103*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-74758/1-A
Matrix: Solid
Analysis Batch: 75086

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/08/24 21:57	1

Lab Sample ID: LCS 880-74758/2-A
Matrix: Solid
Analysis Batch: 75086

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	265.1		mg/Kg		106	90 - 110

Lab Sample ID: LCSD 880-74758/3-A
Matrix: Solid
Analysis Batch: 75086

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	266.3		mg/Kg		107	90 - 110	0	20

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-40252-1 MS
Matrix: Solid
Analysis Batch: 75086

Client Sample ID: CS-1 (2')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	625		252	873.8		mg/Kg		99	90 - 110

Lab Sample ID: 880-40252-1 MSD
Matrix: Solid
Analysis Batch: 75086

Client Sample ID: CS-1 (2')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	625		252	866.4		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 880-40252-11 MS
Matrix: Solid
Analysis Batch: 75086

Client Sample ID: CS-11 (2')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	194	F1	250	473.6	F1	mg/Kg		112	90 - 110

Lab Sample ID: 880-40252-11 MSD
Matrix: Solid
Analysis Batch: 75086

Client Sample ID: CS-11 (2')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	194	F1	250	473.6	F1	mg/Kg		112	90 - 110	0	20

Lab Sample ID: MB 880-74901/1-A
Matrix: Solid
Analysis Batch: 75104

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/09/24 04:37	1

Lab Sample ID: LCS 880-74901/2-A
Matrix: Solid
Analysis Batch: 75104

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	268.3		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-74901/3-A
Matrix: Solid
Analysis Batch: 75104

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	268.4		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 880-40252-21 MS
Matrix: Solid
Analysis Batch: 75104

Client Sample ID: SW-9 (2')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	270		251	516.7		mg/Kg		98	90 - 110

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-40252-21 MSD
Matrix: Solid
Analysis Batch: 75104

Client Sample ID: SW-9 (2')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	270		251	517.0		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-40252-31 MS
Matrix: Solid
Analysis Batch: 75104

Client Sample ID: SW-19 (2')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	340		253	610.0		mg/Kg		107	90 - 110

Lab Sample ID: 880-40252-31 MSD
Matrix: Solid
Analysis Batch: 75104

Client Sample ID: SW-19 (2')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	340		253	613.4		mg/Kg		108	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 74652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-74652/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 74688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-74688/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 74689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-34	SW-22 (2')	Total/NA	Solid	5035	
MB 880-74689/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74689/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74689/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-40191-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-40191-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 74701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-21	SW-9 (2')	Total/NA	Solid	5035	
880-40252-22	SW-10 (2')	Total/NA	Solid	5035	
880-40252-23	SW-11 (2')	Total/NA	Solid	5035	
880-40252-24	SW-12 (2')	Total/NA	Solid	5035	
880-40252-25	SW-13 (2')	Total/NA	Solid	5035	
880-40252-26	SW-14 (2')	Total/NA	Solid	5035	
880-40252-27	SW-15 (2')	Total/NA	Solid	5035	
880-40252-28	SW-16 (2')	Total/NA	Solid	5035	
880-40252-29	SW-17 (2')	Total/NA	Solid	5035	
MB 880-74701/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74701/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74701/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-40212-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
880-40212-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 74704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-1	CS-1 (2')	Total/NA	Solid	5035	
880-40252-2	CS-2 (2')	Total/NA	Solid	5035	
880-40252-3	CS-3 (2')	Total/NA	Solid	5035	
880-40252-4	CS-4 (2')	Total/NA	Solid	5035	
880-40252-5	CS-5 (2')	Total/NA	Solid	5035	
880-40252-6	CS-6 (2')	Total/NA	Solid	5035	
880-40252-7	CS-7 (2')	Total/NA	Solid	5035	
MB 880-74704/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74704/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74704/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-40252-1 MS	CS-1 (2')	Total/NA	Solid	5035	
880-40252-1 MSD	CS-1 (2')	Total/NA	Solid	5035	

Analysis Batch: 74750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-34	SW-22 (2')	Total/NA	Solid	8021B	74689
MB 880-74652/5-A	Method Blank	Total/NA	Solid	8021B	74652

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Analysis Batch: 74750 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-74689/5-A	Method Blank	Total/NA	Solid	8021B	74689
LCS 880-74689/1-A	Lab Control Sample	Total/NA	Solid	8021B	74689
LCSD 880-74689/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74689
880-40191-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	74689
880-40191-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	74689

Prep Batch: 74837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-74837/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 74842

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-74842/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74842/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74842/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-40336-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-40336-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 74854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-74842/5-A	Method Blank	Total/NA	Solid	8021B	74842
LCS 880-74842/1-A	Lab Control Sample	Total/NA	Solid	8021B	74842
LCSD 880-74842/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74842
880-40336-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	74842
880-40336-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	74842

Analysis Batch: 74855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-15	SW-3 (2')	Total/NA	Solid	8021B	74896
880-40252-16	SW-4 (2')	Total/NA	Solid	8021B	74896
880-40252-17	SW-5 (2')	Total/NA	Solid	8021B	74896
880-40252-18	SW-6 (2')	Total/NA	Solid	8021B	74896
880-40252-19	SW-7 (2')	Total/NA	Solid	8021B	74896
880-40252-20	SW-8 (2')	Total/NA	Solid	8021B	74896
880-40252-30	SW-18 (2')	Total/NA	Solid	8021B	74896
880-40252-31	SW-19 (2')	Total/NA	Solid	8021B	74896
880-40252-32	SW-20 (2')	Total/NA	Solid	8021B	74896
880-40252-33	SW-21 (2')	Total/NA	Solid	8021B	74896
MB 880-74837/5-A	Method Blank	Total/NA	Solid	8021B	74837
MB 880-74896/5-A	Method Blank	Total/NA	Solid	8021B	74896
LCS 880-74896/1-A	Lab Control Sample	Total/NA	Solid	8021B	74896
LCSD 880-74896/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74896
880-40356-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	74896
880-40356-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	74896

Analysis Batch: 74894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-21	SW-9 (2')	Total/NA	Solid	8021B	74701
880-40252-22	SW-10 (2')	Total/NA	Solid	8021B	74701
880-40252-23	SW-11 (2')	Total/NA	Solid	8021B	74701
880-40252-24	SW-12 (2')	Total/NA	Solid	8021B	74701

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Analysis Batch: 74894 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-25	SW-13 (2')	Total/NA	Solid	8021B	74701
880-40252-26	SW-14 (2')	Total/NA	Solid	8021B	74701
880-40252-27	SW-15 (2')	Total/NA	Solid	8021B	74701
880-40252-28	SW-16 (2')	Total/NA	Solid	8021B	74701
880-40252-29	SW-17 (2')	Total/NA	Solid	8021B	74701
MB 880-74688/5-A	Method Blank	Total/NA	Solid	8021B	74688
MB 880-74701/5-A	Method Blank	Total/NA	Solid	8021B	74701
LCS 880-74701/1-A	Lab Control Sample	Total/NA	Solid	8021B	74701
LCSD 880-74701/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74701
880-40212-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	74701
880-40212-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	74701

Prep Batch: 74896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-15	SW-3 (2')	Total/NA	Solid	5035	
880-40252-16	SW-4 (2')	Total/NA	Solid	5035	
880-40252-17	SW-5 (2')	Total/NA	Solid	5035	
880-40252-18	SW-6 (2')	Total/NA	Solid	5035	
880-40252-19	SW-7 (2')	Total/NA	Solid	5035	
880-40252-20	SW-8 (2')	Total/NA	Solid	5035	
880-40252-30	SW-18 (2')	Total/NA	Solid	5035	
880-40252-31	SW-19 (2')	Total/NA	Solid	5035	
880-40252-32	SW-20 (2')	Total/NA	Solid	5035	
880-40252-33	SW-21 (2')	Total/NA	Solid	5035	
MB 880-74896/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74896/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74896/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-40356-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-40356-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 74914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-1	CS-1 (2')	Total/NA	Solid	Total BTEX	
880-40252-2	CS-2 (2')	Total/NA	Solid	Total BTEX	
880-40252-3	CS-3 (2')	Total/NA	Solid	Total BTEX	
880-40252-4	CS-4 (2')	Total/NA	Solid	Total BTEX	
880-40252-5	CS-5 (2')	Total/NA	Solid	Total BTEX	
880-40252-6	CS-6 (2')	Total/NA	Solid	Total BTEX	
880-40252-7	CS-7 (2')	Total/NA	Solid	Total BTEX	
880-40252-8	CS-8 (2')	Total/NA	Solid	Total BTEX	
880-40252-9	CS-9 (2')	Total/NA	Solid	Total BTEX	
880-40252-10	CS-10 (2')	Total/NA	Solid	Total BTEX	
880-40252-11	CS-11 (2')	Total/NA	Solid	Total BTEX	
880-40252-12	CS-12 (2')	Total/NA	Solid	Total BTEX	
880-40252-13	SW-1 (2')	Total/NA	Solid	Total BTEX	
880-40252-14	SW-2 (2')	Total/NA	Solid	Total BTEX	
880-40252-15	SW-3 (2')	Total/NA	Solid	Total BTEX	
880-40252-16	SW-4 (2')	Total/NA	Solid	Total BTEX	
880-40252-17	SW-5 (2')	Total/NA	Solid	Total BTEX	
880-40252-18	SW-6 (2')	Total/NA	Solid	Total BTEX	
880-40252-19	SW-7 (2')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Analysis Batch: 74914 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-20	SW-8 (2')	Total/NA	Solid	Total BTEX	
880-40252-21	SW-9 (2')	Total/NA	Solid	Total BTEX	
880-40252-22	SW-10 (2')	Total/NA	Solid	Total BTEX	
880-40252-23	SW-11 (2')	Total/NA	Solid	Total BTEX	
880-40252-24	SW-12 (2')	Total/NA	Solid	Total BTEX	
880-40252-25	SW-13 (2')	Total/NA	Solid	Total BTEX	
880-40252-26	SW-14 (2')	Total/NA	Solid	Total BTEX	
880-40252-27	SW-15 (2')	Total/NA	Solid	Total BTEX	
880-40252-28	SW-16 (2')	Total/NA	Solid	Total BTEX	
880-40252-29	SW-17 (2')	Total/NA	Solid	Total BTEX	
880-40252-30	SW-18 (2')	Total/NA	Solid	Total BTEX	
880-40252-31	SW-19 (2')	Total/NA	Solid	Total BTEX	
880-40252-32	SW-20 (2')	Total/NA	Solid	Total BTEX	
880-40252-33	SW-21 (2')	Total/NA	Solid	Total BTEX	
880-40252-34	SW-22 (2')	Total/NA	Solid	Total BTEX	

Prep Batch: 74999

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-8	CS-8 (2')	Total/NA	Solid	5035	
880-40252-9	CS-9 (2')	Total/NA	Solid	5035	
880-40252-10	CS-10 (2')	Total/NA	Solid	5035	
880-40252-11	CS-11 (2')	Total/NA	Solid	5035	
880-40252-12	CS-12 (2')	Total/NA	Solid	5035	
880-40252-13	SW-1 (2')	Total/NA	Solid	5035	
880-40252-14	SW-2 (2')	Total/NA	Solid	5035	
MB 880-74999/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74999/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74999/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-6320-A-21-D MS	Matrix Spike	Total/NA	Solid	5035	
890-6320-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 75000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-8	CS-8 (2')	Total/NA	Solid	8021B	74999
880-40252-9	CS-9 (2')	Total/NA	Solid	8021B	74999
880-40252-10	CS-10 (2')	Total/NA	Solid	8021B	74999
880-40252-11	CS-11 (2')	Total/NA	Solid	8021B	74999
880-40252-12	CS-12 (2')	Total/NA	Solid	8021B	74999
880-40252-13	SW-1 (2')	Total/NA	Solid	8021B	74999
880-40252-14	SW-2 (2')	Total/NA	Solid	8021B	74999
MB 880-74999/5-A	Method Blank	Total/NA	Solid	8021B	74999
LCS 880-74999/1-A	Lab Control Sample	Total/NA	Solid	8021B	74999
LCSD 880-74999/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74999
890-6320-A-21-D MS	Matrix Spike	Total/NA	Solid	8021B	74999
890-6320-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	74999

Analysis Batch: 75007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-1	CS-1 (2')	Total/NA	Solid	8021B	74704
880-40252-2	CS-2 (2')	Total/NA	Solid	8021B	74704
880-40252-3	CS-3 (2')	Total/NA	Solid	8021B	74704

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

GC VOA (Continued)

Analysis Batch: 75007 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-4	CS-4 (2')	Total/NA	Solid	8021B	74704
880-40252-5	CS-5 (2')	Total/NA	Solid	8021B	74704
880-40252-6	CS-6 (2')	Total/NA	Solid	8021B	74704
880-40252-7	CS-7 (2')	Total/NA	Solid	8021B	74704
MB 880-74704/5-A	Method Blank	Total/NA	Solid	8021B	74704
LCS 880-74704/1-A	Lab Control Sample	Total/NA	Solid	8021B	74704
LCSD 880-74704/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74704
880-40252-1 MS	CS-1 (2')	Total/NA	Solid	8021B	74704
880-40252-1 MSD	CS-1 (2')	Total/NA	Solid	8021B	74704

GC Semi VOA

Prep Batch: 74935

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-1	CS-1 (2')	Total/NA	Solid	8015NM Prep	
880-40252-2	CS-2 (2')	Total/NA	Solid	8015NM Prep	
880-40252-3	CS-3 (2')	Total/NA	Solid	8015NM Prep	
880-40252-4	CS-4 (2')	Total/NA	Solid	8015NM Prep	
880-40252-5	CS-5 (2')	Total/NA	Solid	8015NM Prep	
880-40252-6	CS-6 (2')	Total/NA	Solid	8015NM Prep	
880-40252-7	CS-7 (2')	Total/NA	Solid	8015NM Prep	
880-40252-8	CS-8 (2')	Total/NA	Solid	8015NM Prep	
880-40252-9	CS-9 (2')	Total/NA	Solid	8015NM Prep	
880-40252-10	CS-10 (2')	Total/NA	Solid	8015NM Prep	
880-40252-11	CS-11 (2')	Total/NA	Solid	8015NM Prep	
880-40252-12	CS-12 (2')	Total/NA	Solid	8015NM Prep	
880-40252-13	SW-1 (2')	Total/NA	Solid	8015NM Prep	
MB 880-74935/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74935/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74935/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-40252-1 MS	CS-1 (2')	Total/NA	Solid	8015NM Prep	
880-40252-1 MSD	CS-1 (2')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 74954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-1	CS-1 (2')	Total/NA	Solid	8015B NM	74935
880-40252-2	CS-2 (2')	Total/NA	Solid	8015B NM	74935
880-40252-3	CS-3 (2')	Total/NA	Solid	8015B NM	74935
880-40252-4	CS-4 (2')	Total/NA	Solid	8015B NM	74935
880-40252-5	CS-5 (2')	Total/NA	Solid	8015B NM	74935
880-40252-6	CS-6 (2')	Total/NA	Solid	8015B NM	74935
880-40252-7	CS-7 (2')	Total/NA	Solid	8015B NM	74935
880-40252-8	CS-8 (2')	Total/NA	Solid	8015B NM	74935
880-40252-9	CS-9 (2')	Total/NA	Solid	8015B NM	74935
880-40252-10	CS-10 (2')	Total/NA	Solid	8015B NM	74935
880-40252-11	CS-11 (2')	Total/NA	Solid	8015B NM	74935
880-40252-12	CS-12 (2')	Total/NA	Solid	8015B NM	74935
880-40252-13	SW-1 (2')	Total/NA	Solid	8015B NM	74935
MB 880-74935/1-A	Method Blank	Total/NA	Solid	8015B NM	74935
LCS 880-74935/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74935
LCSD 880-74935/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74935

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 74954 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-1 MS	CS-1 (2')	Total/NA	Solid	8015B NM	74935
880-40252-1 MSD	CS-1 (2')	Total/NA	Solid	8015B NM	74935

Analysis Batch: 75024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-1	CS-1 (2')	Total/NA	Solid	8015 NM	
880-40252-2	CS-2 (2')	Total/NA	Solid	8015 NM	
880-40252-3	CS-3 (2')	Total/NA	Solid	8015 NM	
880-40252-4	CS-4 (2')	Total/NA	Solid	8015 NM	
880-40252-5	CS-5 (2')	Total/NA	Solid	8015 NM	
880-40252-6	CS-6 (2')	Total/NA	Solid	8015 NM	
880-40252-7	CS-7 (2')	Total/NA	Solid	8015 NM	
880-40252-8	CS-8 (2')	Total/NA	Solid	8015 NM	
880-40252-9	CS-9 (2')	Total/NA	Solid	8015 NM	
880-40252-10	CS-10 (2')	Total/NA	Solid	8015 NM	
880-40252-11	CS-11 (2')	Total/NA	Solid	8015 NM	
880-40252-12	CS-12 (2')	Total/NA	Solid	8015 NM	
880-40252-13	SW-1 (2')	Total/NA	Solid	8015 NM	
880-40252-14	SW-2 (2')	Total/NA	Solid	8015 NM	
880-40252-15	SW-3 (2')	Total/NA	Solid	8015 NM	
880-40252-16	SW-4 (2')	Total/NA	Solid	8015 NM	
880-40252-17	SW-5 (2')	Total/NA	Solid	8015 NM	
880-40252-18	SW-6 (2')	Total/NA	Solid	8015 NM	
880-40252-19	SW-7 (2')	Total/NA	Solid	8015 NM	
880-40252-20	SW-8 (2')	Total/NA	Solid	8015 NM	
880-40252-21	SW-9 (2')	Total/NA	Solid	8015 NM	
880-40252-22	SW-10 (2')	Total/NA	Solid	8015 NM	
880-40252-23	SW-11 (2')	Total/NA	Solid	8015 NM	
880-40252-24	SW-12 (2')	Total/NA	Solid	8015 NM	
880-40252-25	SW-13 (2')	Total/NA	Solid	8015 NM	
880-40252-26	SW-14 (2')	Total/NA	Solid	8015 NM	
880-40252-27	SW-15 (2')	Total/NA	Solid	8015 NM	
880-40252-28	SW-16 (2')	Total/NA	Solid	8015 NM	
880-40252-29	SW-17 (2')	Total/NA	Solid	8015 NM	
880-40252-30	SW-18 (2')	Total/NA	Solid	8015 NM	
880-40252-31	SW-19 (2')	Total/NA	Solid	8015 NM	
880-40252-32	SW-20 (2')	Total/NA	Solid	8015 NM	
880-40252-33	SW-21 (2')	Total/NA	Solid	8015 NM	
880-40252-34	SW-22 (2')	Total/NA	Solid	8015 NM	

Analysis Batch: 75049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-14	SW-2 (2')	Total/NA	Solid	8015B NM	75057
880-40252-15	SW-3 (2')	Total/NA	Solid	8015B NM	75057
880-40252-16	SW-4 (2')	Total/NA	Solid	8015B NM	75057
880-40252-17	SW-5 (2')	Total/NA	Solid	8015B NM	75057
880-40252-18	SW-6 (2')	Total/NA	Solid	8015B NM	75057
880-40252-19	SW-7 (2')	Total/NA	Solid	8015B NM	75057
880-40252-20	SW-8 (2')	Total/NA	Solid	8015B NM	75057
880-40252-34	SW-22 (2')	Total/NA	Solid	8015B NM	75057
MB 880-75057/1-A	Method Blank	Total/NA	Solid	8015B NM	75057

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 75049 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-75057/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	75057
LCSD 880-75057/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	75057
890-6320-A-21-H MS	Matrix Spike	Total/NA	Solid	8015B NM	75057
890-6320-A-21-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	75057

Prep Batch: 75057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-14	SW-2 (2')	Total/NA	Solid	8015NM Prep	
880-40252-15	SW-3 (2')	Total/NA	Solid	8015NM Prep	
880-40252-16	SW-4 (2')	Total/NA	Solid	8015NM Prep	
880-40252-17	SW-5 (2')	Total/NA	Solid	8015NM Prep	
880-40252-18	SW-6 (2')	Total/NA	Solid	8015NM Prep	
880-40252-19	SW-7 (2')	Total/NA	Solid	8015NM Prep	
880-40252-20	SW-8 (2')	Total/NA	Solid	8015NM Prep	
880-40252-34	SW-22 (2')	Total/NA	Solid	8015NM Prep	
MB 880-75057/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-75057/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-75057/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-6320-A-21-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-6320-A-21-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 75153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-21	SW-9 (2')	Total/NA	Solid	8015NM Prep	
880-40252-22	SW-10 (2')	Total/NA	Solid	8015NM Prep	
880-40252-23	SW-11 (2')	Total/NA	Solid	8015NM Prep	
880-40252-24	SW-12 (2')	Total/NA	Solid	8015NM Prep	
880-40252-25	SW-13 (2')	Total/NA	Solid	8015NM Prep	
880-40252-26	SW-14 (2')	Total/NA	Solid	8015NM Prep	
880-40252-27	SW-15 (2')	Total/NA	Solid	8015NM Prep	
880-40252-28	SW-16 (2')	Total/NA	Solid	8015NM Prep	
880-40252-29	SW-17 (2')	Total/NA	Solid	8015NM Prep	
880-40252-30	SW-18 (2')	Total/NA	Solid	8015NM Prep	
880-40252-31	SW-19 (2')	Total/NA	Solid	8015NM Prep	
880-40252-32	SW-20 (2')	Total/NA	Solid	8015NM Prep	
880-40252-33	SW-21 (2')	Total/NA	Solid	8015NM Prep	
MB 880-75153/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-75153/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-75153/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-40252-31 MS	SW-19 (2')	Total/NA	Solid	8015NM Prep	
880-40252-31 MSD	SW-19 (2')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 75169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-21	SW-9 (2')	Total/NA	Solid	8015B NM	75153
880-40252-22	SW-10 (2')	Total/NA	Solid	8015B NM	75153
880-40252-23	SW-11 (2')	Total/NA	Solid	8015B NM	75153
880-40252-24	SW-12 (2')	Total/NA	Solid	8015B NM	75153
880-40252-25	SW-13 (2')	Total/NA	Solid	8015B NM	75153
880-40252-26	SW-14 (2')	Total/NA	Solid	8015B NM	75153
880-40252-27	SW-15 (2')	Total/NA	Solid	8015B NM	75153

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 75169 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-28	SW-16 (2')	Total/NA	Solid	8015B NM	75153
880-40252-29	SW-17 (2')	Total/NA	Solid	8015B NM	75153
880-40252-30	SW-18 (2')	Total/NA	Solid	8015B NM	75153
880-40252-31	SW-19 (2')	Total/NA	Solid	8015B NM	75153
880-40252-32	SW-20 (2')	Total/NA	Solid	8015B NM	75153
880-40252-33	SW-21 (2')	Total/NA	Solid	8015B NM	75153
MB 880-75153/1-A	Method Blank	Total/NA	Solid	8015B NM	75153
LCS 880-75153/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	75153
LCSD 880-75153/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	75153
880-40252-31 MS	SW-19 (2')	Total/NA	Solid	8015B NM	75153
880-40252-31 MSD	SW-19 (2')	Total/NA	Solid	8015B NM	75153

HPLC/IC

Leach Batch: 74758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-1	CS-1 (2')	Soluble	Solid	DI Leach	
880-40252-2	CS-2 (2')	Soluble	Solid	DI Leach	
880-40252-3	CS-3 (2')	Soluble	Solid	DI Leach	
880-40252-4	CS-4 (2')	Soluble	Solid	DI Leach	
880-40252-5	CS-5 (2')	Soluble	Solid	DI Leach	
880-40252-6	CS-6 (2')	Soluble	Solid	DI Leach	
880-40252-7	CS-7 (2')	Soluble	Solid	DI Leach	
880-40252-8	CS-8 (2')	Soluble	Solid	DI Leach	
880-40252-9	CS-9 (2')	Soluble	Solid	DI Leach	
880-40252-10	CS-10 (2')	Soluble	Solid	DI Leach	
880-40252-11	CS-11 (2')	Soluble	Solid	DI Leach	
880-40252-12	CS-12 (2')	Soluble	Solid	DI Leach	
880-40252-13	SW-1 (2')	Soluble	Solid	DI Leach	
880-40252-14	SW-2 (2')	Soluble	Solid	DI Leach	
880-40252-15	SW-3 (2')	Soluble	Solid	DI Leach	
880-40252-16	SW-4 (2')	Soluble	Solid	DI Leach	
880-40252-17	SW-5 (2')	Soluble	Solid	DI Leach	
880-40252-18	SW-6 (2')	Soluble	Solid	DI Leach	
880-40252-19	SW-7 (2')	Soluble	Solid	DI Leach	
880-40252-20	SW-8 (2')	Soluble	Solid	DI Leach	
MB 880-74758/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74758/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74758/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-40252-1 MS	CS-1 (2')	Soluble	Solid	DI Leach	
880-40252-1 MSD	CS-1 (2')	Soluble	Solid	DI Leach	
880-40252-11 MS	CS-11 (2')	Soluble	Solid	DI Leach	
880-40252-11 MSD	CS-11 (2')	Soluble	Solid	DI Leach	

Leach Batch: 74901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-21	SW-9 (2')	Soluble	Solid	DI Leach	
880-40252-22	SW-10 (2')	Soluble	Solid	DI Leach	
880-40252-23	SW-11 (2')	Soluble	Solid	DI Leach	
880-40252-24	SW-12 (2')	Soluble	Solid	DI Leach	
880-40252-25	SW-13 (2')	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Leach Batch: 74901 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-26	SW-14 (2')	Soluble	Solid	DI Leach	
880-40252-27	SW-15 (2')	Soluble	Solid	DI Leach	
880-40252-28	SW-16 (2')	Soluble	Solid	DI Leach	
880-40252-29	SW-17 (2')	Soluble	Solid	DI Leach	
880-40252-30	SW-18 (2')	Soluble	Solid	DI Leach	
880-40252-31	SW-19 (2')	Soluble	Solid	DI Leach	
880-40252-32	SW-20 (2')	Soluble	Solid	DI Leach	
880-40252-33	SW-21 (2')	Soluble	Solid	DI Leach	
880-40252-34	SW-22 (2')	Soluble	Solid	DI Leach	
MB 880-74901/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74901/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74901/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-40252-21 MS	SW-9 (2')	Soluble	Solid	DI Leach	
880-40252-21 MSD	SW-9 (2')	Soluble	Solid	DI Leach	
880-40252-31 MS	SW-19 (2')	Soluble	Solid	DI Leach	
880-40252-31 MSD	SW-19 (2')	Soluble	Solid	DI Leach	

Analysis Batch: 75086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-1	CS-1 (2')	Soluble	Solid	300.0	74758
880-40252-2	CS-2 (2')	Soluble	Solid	300.0	74758
880-40252-3	CS-3 (2')	Soluble	Solid	300.0	74758
880-40252-4	CS-4 (2')	Soluble	Solid	300.0	74758
880-40252-5	CS-5 (2')	Soluble	Solid	300.0	74758
880-40252-6	CS-6 (2')	Soluble	Solid	300.0	74758
880-40252-7	CS-7 (2')	Soluble	Solid	300.0	74758
880-40252-8	CS-8 (2')	Soluble	Solid	300.0	74758
880-40252-9	CS-9 (2')	Soluble	Solid	300.0	74758
880-40252-10	CS-10 (2')	Soluble	Solid	300.0	74758
880-40252-11	CS-11 (2')	Soluble	Solid	300.0	74758
880-40252-12	CS-12 (2')	Soluble	Solid	300.0	74758
880-40252-13	SW-1 (2')	Soluble	Solid	300.0	74758
880-40252-14	SW-2 (2')	Soluble	Solid	300.0	74758
880-40252-15	SW-3 (2')	Soluble	Solid	300.0	74758
880-40252-16	SW-4 (2')	Soluble	Solid	300.0	74758
880-40252-17	SW-5 (2')	Soluble	Solid	300.0	74758
880-40252-18	SW-6 (2')	Soluble	Solid	300.0	74758
880-40252-19	SW-7 (2')	Soluble	Solid	300.0	74758
880-40252-20	SW-8 (2')	Soluble	Solid	300.0	74758
MB 880-74758/1-A	Method Blank	Soluble	Solid	300.0	74758
LCS 880-74758/2-A	Lab Control Sample	Soluble	Solid	300.0	74758
LCSD 880-74758/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74758
880-40252-1 MS	CS-1 (2')	Soluble	Solid	300.0	74758
880-40252-1 MSD	CS-1 (2')	Soluble	Solid	300.0	74758
880-40252-11 MS	CS-11 (2')	Soluble	Solid	300.0	74758
880-40252-11 MSD	CS-11 (2')	Soluble	Solid	300.0	74758

Analysis Batch: 75104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-21	SW-9 (2')	Soluble	Solid	300.0	74901
880-40252-22	SW-10 (2')	Soluble	Solid	300.0	74901

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 75104 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40252-23	SW-11 (2')	Soluble	Solid	300.0	74901
880-40252-24	SW-12 (2')	Soluble	Solid	300.0	74901
880-40252-25	SW-13 (2')	Soluble	Solid	300.0	74901
880-40252-26	SW-14 (2')	Soluble	Solid	300.0	74901
880-40252-27	SW-15 (2')	Soluble	Solid	300.0	74901
880-40252-28	SW-16 (2')	Soluble	Solid	300.0	74901
880-40252-29	SW-17 (2')	Soluble	Solid	300.0	74901
880-40252-30	SW-18 (2')	Soluble	Solid	300.0	74901
880-40252-31	SW-19 (2')	Soluble	Solid	300.0	74901
880-40252-32	SW-20 (2')	Soluble	Solid	300.0	74901
880-40252-33	SW-21 (2')	Soluble	Solid	300.0	74901
880-40252-34	SW-22 (2')	Soluble	Solid	300.0	74901
MB 880-74901/1-A	Method Blank	Soluble	Solid	300.0	74901
LCS 880-74901/2-A	Lab Control Sample	Soluble	Solid	300.0	74901
LCSD 880-74901/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74901
880-40252-21 MS	SW-9 (2')	Soluble	Solid	300.0	74901
880-40252-21 MSD	SW-9 (2')	Soluble	Solid	300.0	74901
880-40252-31 MS	SW-19 (2')	Soluble	Solid	300.0	74901
880-40252-31 MSD	SW-19 (2')	Soluble	Solid	300.0	74901

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	74704	03/04/24 16:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75007	03/07/24 15:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 15:59	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/07/24 11:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	74935	03/06/24 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 11:11	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	74758	03/05/24 09:28	SMC	EET MID
Soluble	Analysis	300.0		1			75086	03/08/24 22:14	CH	EET MID

Client Sample ID: CS-2 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	74704	03/04/24 16:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75007	03/07/24 20:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 20:29	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/07/24 12:16	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74935	03/06/24 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 12:16	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	74758	03/05/24 09:28	SMC	EET MID
Soluble	Analysis	300.0		1			75086	03/08/24 22:31	CH	EET MID

Client Sample ID: CS-3 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	74704	03/04/24 16:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75007	03/07/24 20:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 20:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/07/24 12:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	74935	03/06/24 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 12:37	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	74758	03/05/24 09:28	SMC	EET MID
Soluble	Analysis	300.0		1			75086	03/08/24 22:37	CH	EET MID

Client Sample ID: CS-4 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	74704	03/04/24 16:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75007	03/07/24 21:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 21:11	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-4 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			75024	03/07/24 15:52	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	74935	03/06/24 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 15:52	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	74758	03/05/24 09:28	SMC	EET MID
Soluble	Analysis	300.0		1			75086	03/08/24 22:43	CH	EET MID

Client Sample ID: CS-5 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	74704	03/04/24 16:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75007	03/07/24 21:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 21:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/07/24 16:14	SM	EET MID
Total/NA	Prep	8015NM Prep			9.91 g	10 mL	74935	03/06/24 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 16:14	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74758	03/05/24 09:28	SMC	EET MID
Soluble	Analysis	300.0		1			75086	03/08/24 22:48	CH	EET MID

Client Sample ID: CS-6 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	74704	03/04/24 16:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75007	03/07/24 21:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 21:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/07/24 16:36	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	74935	03/06/24 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 16:36	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74758	03/05/24 09:28	SMC	EET MID
Soluble	Analysis	300.0		1			75086	03/08/24 23:06	CH	EET MID

Client Sample ID: CS-7 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	74704	03/04/24 16:29	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75007	03/07/24 22:13	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 22:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/07/24 16:57	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	74935	03/06/24 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 16:57	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-7 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	74758	03/05/24 09:28	SMC	EET MID
Soluble	Analysis	300.0		1			75086	03/08/24 23:11	CH	EET MID

Client Sample ID: CS-8 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	74999	03/07/24 12:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75000	03/08/24 01:33	SM	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/08/24 01:33	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/07/24 17:19	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	74935	03/06/24 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 17:19	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	74758	03/05/24 09:28	SMC	EET MID
Soluble	Analysis	300.0		1			75086	03/08/24 23:17	CH	EET MID

Client Sample ID: CS-9 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	74999	03/07/24 12:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75000	03/08/24 02:00	SM	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/08/24 02:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/07/24 17:40	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	74935	03/06/24 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 17:40	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	74758	03/05/24 09:28	SMC	EET MID
Soluble	Analysis	300.0		1			75086	03/08/24 23:23	CH	EET MID

Client Sample ID: CS-10 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	74999	03/07/24 12:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75000	03/08/24 02:27	SM	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/08/24 02:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/07/24 18:02	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	74935	03/06/24 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 18:02	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	74758	03/05/24 09:28	SMC	EET MID
Soluble	Analysis	300.0		1			75086	03/08/24 23:29	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-11 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	74999	03/07/24 12:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75000	03/08/24 02:53	SM	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/08/24 02:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/07/24 18:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	74935	03/06/24 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 18:23	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74758	03/05/24 09:28	SMC	EET MID
Soluble	Analysis	300.0		1			75086	03/08/24 23:34	CH	EET MID

Client Sample ID: CS-12 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	74999	03/07/24 12:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75000	03/08/24 00:13	SM	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/08/24 00:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/07/24 18:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	74935	03/06/24 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 18:45	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	74758	03/05/24 09:28	SMC	EET MID
Soluble	Analysis	300.0		1			75086	03/08/24 23:51	CH	EET MID

Client Sample ID: SW-1 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	74999	03/07/24 12:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75000	03/08/24 00:40	SM	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/08/24 00:40	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/07/24 19:07	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	74935	03/06/24 16:51	TKC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	74954	03/07/24 19:07	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74758	03/05/24 09:28	SMC	EET MID
Soluble	Analysis	300.0		1			75086	03/08/24 23:57	CH	EET MID

Client Sample ID: SW-2 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	74999	03/07/24 12:23	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	75000	03/08/24 01:06	SM	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/08/24 01:06	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-2 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			75024	03/08/24 13:39	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	75057	03/08/24 10:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75049	03/08/24 13:39	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	74758	03/05/24 09:28	SMC	EET MID
Soluble	Analysis	300.0		1			75086	03/08/24 23:14	CH	EET MID

Client Sample ID: SW-3 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	74896	03/06/24 14:08	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74855	03/07/24 07:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 07:00	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/08/24 14:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	75057	03/08/24 10:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75049	03/08/24 14:00	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	74758	03/05/24 09:28	SMC	EET MID
Soluble	Analysis	300.0		1			75086	03/08/24 23:20	CH	EET MID

Client Sample ID: SW-4 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	74896	03/06/24 14:08	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74855	03/07/24 07:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 07:20	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/08/24 14:22	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	75057	03/08/24 10:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75049	03/08/24 14:22	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	74758	03/05/24 09:28	SMC	EET MID
Soluble	Analysis	300.0		1			75086	03/08/24 23:25	CH	EET MID

Client Sample ID: SW-5 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	74896	03/06/24 14:08	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74855	03/07/24 07:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 07:41	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/08/24 15:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	75057	03/08/24 10:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75049	03/08/24 15:06	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-5 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	74758	03/05/24 09:28	SMC	EET MID
Soluble	Analysis	300.0		1			75086	03/08/24 23:31	CH	EET MID

Client Sample ID: SW-6 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	74896	03/06/24 14:08	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74855	03/07/24 08:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 08:01	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/08/24 15:28	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	75057	03/08/24 10:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75049	03/08/24 15:28	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	74758	03/05/24 09:28	SMC	EET MID
Soluble	Analysis	300.0		1			75086	03/08/24 23:37	CH	EET MID

Client Sample ID: SW-7 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	74896	03/06/24 14:08	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74855	03/07/24 08:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 08:22	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/08/24 15:51	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	75057	03/08/24 10:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75049	03/08/24 15:51	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	74758	03/05/24 09:28	SMC	EET MID
Soluble	Analysis	300.0		1			75086	03/08/24 23:42	CH	EET MID

Client Sample ID: SW-8 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	74896	03/06/24 14:08	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74855	03/07/24 08:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 08:42	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/08/24 16:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	75057	03/08/24 10:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75049	03/08/24 16:13	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74758	03/05/24 09:28	SMC	EET MID
Soluble	Analysis	300.0		1			75086	03/08/24 23:48	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-9 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	74701	03/04/24 16:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74894	03/07/24 08:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 08:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/10/24 13:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	75153	03/09/24 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75169	03/10/24 13:00	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74901	03/06/24 15:25	SMC	EET MID
Soluble	Analysis	300.0		1			75104	03/09/24 04:54	CH	EET MID

Client Sample ID: SW-10 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	74701	03/04/24 16:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74894	03/07/24 09:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 09:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/10/24 13:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	75153	03/09/24 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75169	03/10/24 13:22	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	74901	03/06/24 15:25	SMC	EET MID
Soluble	Analysis	300.0		1			75104	03/09/24 05:11	CH	EET MID

Client Sample ID: SW-11 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	74701	03/04/24 16:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74894	03/07/24 09:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 09:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/10/24 13:45	SM	EET MID
Total/NA	Prep	8015NM Prep			10.055 g	10 mL	75153	03/09/24 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75169	03/10/24 13:45	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74901	03/06/24 15:25	SMC	EET MID
Soluble	Analysis	300.0		1			75104	03/09/24 05:16	CH	EET MID

Client Sample ID: SW-12 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	74701	03/04/24 16:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74894	03/07/24 09:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 09:45	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-12 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			75024	03/10/24 14:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	75153	03/09/24 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75169	03/10/24 14:06	SM	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	74901	03/06/24 15:25	SMC	EET MID
Soluble	Analysis	300.0		1			75104	03/09/24 05:22	CH	EET MID

Client Sample ID: SW-13 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	74701	03/04/24 16:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74894	03/07/24 10:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/10/24 14:28	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	75153	03/09/24 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75169	03/10/24 14:28	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	74901	03/06/24 15:25	SMC	EET MID
Soluble	Analysis	300.0		1			75104	03/09/24 05:28	CH	EET MID

Client Sample ID: SW-14 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	74701	03/04/24 16:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74894	03/07/24 10:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 10:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/10/24 14:50	SM	EET MID
Total/NA	Prep	8015NM Prep			9.92 g	10 mL	75153	03/09/24 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75169	03/10/24 14:50	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	74901	03/06/24 15:25	SMC	EET MID
Soluble	Analysis	300.0		1			75104	03/09/24 05:45	CH	EET MID

Client Sample ID: SW-15 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	74701	03/04/24 16:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74894	03/07/24 10:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 10:46	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/10/24 15:11	SM	EET MID
Total/NA	Prep	8015NM Prep			9.90 g	10 mL	75153	03/09/24 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75169	03/10/24 15:11	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-15 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	74901	03/06/24 15:25	SMC	EET MID
Soluble	Analysis	300.0		1			75104	03/09/24 05:50	CH	EET MID

Client Sample ID: SW-16 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	74701	03/04/24 16:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74894	03/07/24 11:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 11:07	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/10/24 15:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	75153	03/09/24 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75169	03/10/24 15:33	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	74901	03/06/24 15:25	SMC	EET MID
Soluble	Analysis	300.0		1			75104	03/09/24 05:56	CH	EET MID

Client Sample ID: SW-17 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	74701	03/04/24 16:21	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74894	03/07/24 11:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 11:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/10/24 15:54	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	75153	03/09/24 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75169	03/10/24 15:54	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	74901	03/06/24 15:25	SMC	EET MID
Soluble	Analysis	300.0		1			75104	03/09/24 06:02	CH	EET MID

Client Sample ID: SW-18 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	74896	03/06/24 14:08	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74855	03/07/24 09:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 09:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/10/24 16:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	75153	03/09/24 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75169	03/10/24 16:37	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74901	03/06/24 15:25	SMC	EET MID
Soluble	Analysis	300.0		1			75104	03/09/24 06:08	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-19 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	74896	03/06/24 14:08	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74855	03/07/24 09:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 09:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/10/24 11:54	SM	EET MID
Total/NA	Prep	8015NM Prep			9.93 g	10 mL	75153	03/09/24 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75169	03/10/24 11:54	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	74901	03/06/24 15:25	SMC	EET MID
Soluble	Analysis	300.0		1			75104	03/09/24 06:13	CH	EET MID

Client Sample ID: SW-20 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	74896	03/06/24 14:08	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74855	03/07/24 09:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 09:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/10/24 19:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	75153	03/09/24 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75169	03/10/24 19:11	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	74901	03/06/24 15:25	SMC	EET MID
Soluble	Analysis	300.0		1			75104	03/09/24 06:31	CH	EET MID

Client Sample ID: SW-21 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	74896	03/07/24 08:48	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74855	03/07/24 10:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/07/24 10:04	SM	EET MID
Total/NA	Analysis	8015 NM		1			75024	03/10/24 19:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	75153	03/09/24 11:45	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75169	03/10/24 19:32	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	74901	03/06/24 15:25	SMC	EET MID
Soluble	Analysis	300.0		1			75104	03/09/24 06:36	CH	EET MID

Client Sample ID: SW-22 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	74689	03/05/24 13:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	74750	03/06/24 03:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			74914	03/06/24 03:55	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-22 (2')
Date Collected: 03/01/24 00:00
Date Received: 03/04/24 14:37

Lab Sample ID: 880-40252-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			75024	03/08/24 18:21	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	75057	03/08/24 10:24	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	75049	03/08/24 18:21	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	74901	03/06/24 15:25	SMC	EET MID
Soluble	Analysis	300.0		1			75104	03/09/24 06:53	CH	EET MID

Laboratory References:
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International
EPA = US Environmental Protection Agency
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40252-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-40252-1	CS-1 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-2	CS-2 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-3	CS-3 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-4	CS-4 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-5	CS-5 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-6	CS-6 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-7	CS-7 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-8	CS-8 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-9	CS-9 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-10	CS-10 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-11	CS-11 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-12	CS-12 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-13	SW-1 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-14	SW-2 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-15	SW-3 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-16	SW-4 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-17	SW-5 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-18	SW-6 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-19	SW-7 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-20	SW-8 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-21	SW-9 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-22	SW-10 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-23	SW-11 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-24	SW-12 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-25	SW-13 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-26	SW-14 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-27	SW-15 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-28	SW-16 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-29	SW-17 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-30	SW-18 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-31	SW-19 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-32	SW-20 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-33	SW-21 (2')	Solid	03/01/24 00:00	03/04/24 14:37
880-40252-34	SW-22 (2')	Solid	03/01/24 00:00	03/04/24 14:37

Chain of Custody

Work Order No: _____

Page ___1___ of _4____

Project Manager:	Clinton Merritt	Bill to: (if different)	Isaac Castro
Company Name:	Carmona Resources	Company Name:	Marathon Oil Corporation
Address:	310 W Wall St Ste 500	Address:	990 Town and Country Blvd
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Houston, TX 77024
Phone:	Email:	icastro@marathonoil.com	

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐

State of Project:

Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Black River 4H	**Turn Around**	
Project Number:	2224	☑ Routine	☐ Rush
Project Location	Eddy County, New Mexico	Due Date:	5 Day TAT
Sampler's Name:	CCM		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-.10
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	-5.4
Total Containers:		Corrected Temperature:	-5.3

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
CS-1 (2')	3/1/2024		X		Comp	1		X	X	X	
CS-2 (2')	3/1/2024		X		Comp	1		X	X	X	
CS-3 (2')	3/1/2024		X		Comp	1		X	X	X	
CS-4 (2')	3/1/2024		X		Comp	1		X	X	X	
CS-5 (2')	3/1/2024		X		Comp	1		X	X	X	
CS-6 (2')	3/1/2024		X		Comp	1		X	X	X	
CS-7 (2')	3/1/2024		X		Comp	1		X	X	X	
CS-8 (2')	3/1/2024		X		Comp	1		X	X	X	
CS-9 (2')	3/1/2024		X		Comp	1		X	X	X	
CS-10 (2')	3/1/2024		X		Comp	1		X	X	X	

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Clinton Merritt	03/04/2024 1437	Jessica Kramer	03/04/24 1437

Chain of Custody

Work Order No: _____

Page ___2___ of ___4__

Project Manager:	Clinton Merritt	Bill to: (if different)	Isaac Castro
Company Name:	Carmona Resources	Company Name:	Marathon Oil Corporation
Address:	310 W Wall St Ste 500	Address:	990 Town and Country Blvd
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Houston, TX 77024
Phone:		Email:	icastro@marathonoil.com

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐

State of Project:

Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Black River 4H	**Turn Around**		Pres. Code	
Project Number:	2224	☑ Routine	☐ Rush		
Project Location	Eddy County, New Mexico	Due Date:	5 Day TAT		
Sampler's Name:	CCM				
PO #:					

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
CS-11 (2')	3/1/2024		X		Comp	1	X	X	X	
CS-12 (2')	3/1/2024		X		Comp	1	X	X	X	
SW-1 (2')	3/1/2024		X		Comp	1	X	X	X	
SW-2 (2')	3/1/2024		X		Comp	1	X	X	X	
SW-3 (2')	3/1/2024		X		Comp	1	X	X	X	
SW-4 (2')	3/1/2024		X		Comp	1	X	X	X	
SW-5 (2')	3/1/2024		X		Comp	1	X	X	X	
SW-6 (2')	3/1/2024		X		Comp	1	X	X	X	
SW-7 (2')	3/1/2024		X		Comp	1	X	X	X	
SW-8 (2')	3/1/2024		X		Comp	1	X	X	X	

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Clinton Merritt		Jessica Kramer	

Chain of Custody

Work Order No: _____

Page ___3___ of __4___

Project Manager:	Clinton Merritt	Bill to: (if different)	Isaac Castro
Company Name:	Carmona Resources	Company Name:	Marathon Oil Corporation
Address:	310 W Wall St Ste 500	Address:	990 Town and Country Blvd
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Houston, TX 77024
Phone:		Email:	icastro@marathonoil.com

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐

State of Project:

Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Black River 4H	**Turn Around**	
Project Number:	2224	☑ Routine	☐ Rush
Project Location	Eddy County, New Mexico	Due Date:	5 Day TAT
Sampler's Name:	CCM		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
SW-9 (2')	3/1/2024		X		Comp	1		X	X	X	
SW-10 (2')	3/1/2024		X		Comp	1		X	X	X	
SW-11 (2')	3/1/2024		X		Comp	1		X	X	X	
SW-12 (2')	3/1/2024		X		Comp	1		X	X	X	
SW-13 (2')	3/1/2024		X		Comp	1		X	X	X	
SW-14 (2')	3/1/2024		X		Comp	1		X	X	X	
SW-15 (2')	3/1/2024		X		Comp	1		X	X	X	
SW-16 (2')	3/1/2024		X		Comp	1		X	X	X	
SW-17 (2')	3/1/2024		X		Comp	1		X	X	X	
SW-18 (2')	3/1/2024		X		Comp	1		X	X	X	

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Clinton Merritt		Jessica Kramer	

Chain of Custody

Work Order No: _____

Page ___4___ of ___4__

Project Manager:	Clinton Merritt	Bill to: (if different)	Isaac Castro
Company Name:	Carmona Resources	Company Name:	Marathon Oil Corporation
Address:	310 W Wall St Ste 500	Address:	990 Town and Country Blvd
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Houston, TX 77024
Phone:		Email:	icastro@marathonoil.com

Work Order Comments

Program: UST/PST ☐ **PRP** ☐ **Brownfields** ☐ **RRC** ☐ **Superfund** ☐

State of Project:

Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Black River 4H	**Turn Around**		Pres. Code	
Project Number:	2224	☑ Routine	☐ Rush		
Project Location	Eddy County, New Mexico	Due Date:	5 Day TAT		
Sampler's Name:	CCM				
PO #:					

SAMPLE RECEIPT	Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2S0_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Sample Comments
SW-19 (2')	3/1/2024		X		Comp	1	X	X	X	
SW-20 (2')	3/1/2024		X		Comp	1	X	X	X	
SW-21 (2')	3/1/2024		X		Comp	1	X	X	X	
SW-22 (2')	3/1/2024		X		Comp	1	X	X	X	

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources.com, Clint Merritt MerrittC@carmonaresources.com

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Clinton Merritt		Jessica Kramer	

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-40252-1
SDG Number: Eddy County, New Mexico

Login Number: 40252
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Clint Merritt
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 3/22/2024 10:28:38 AM

JOB DESCRIPTION

Black River 4H
Eddy County, New Mexico

JOB NUMBER

880-40964-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Released to Imaging: 5/7/2024 8:27:42 PM

my EOL

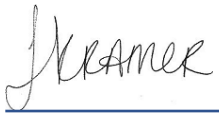
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
3/22/2024 10:28:38 AM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Carmona Resources
Project/Site: Black River 4H

Laboratory Job ID: 880-40964-1
SDG: Eddy County, New Mexico

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Definitions/Glossary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40964-1
SDG: Eddy County, New Mexico

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Carmona Resources
Project: Black River 4H

Job ID: 880-40964-1

Job ID: 880-40964-1 Eurofins Midland

Job Narrative
880-40964-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/15/2024 4:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS-1 (2.25') (880-40964-1), CS-2 (2.25') (880-40964-2), CS-6 (2.25') (880-40964-3), CS-8 (2.25') (880-40964-4) and SW-16 (2') (880-40964-5).

GC VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-76094 and analytical batch 880-76143 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: CS-1 (2.25') (880-40964-1), CS-2 (2.25') (880-40964-2), CS-6 (2.25') (880-40964-3), CS-8 (2.25') (880-40964-4), (880-40964-A-5-D MS) and (880-40964-A-5-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-76094 and analytical batch 880-76143 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-75950 and analytical batch 880-76028 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40964-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (2.25')

Lab Sample ID: 880-40964-1
Matrix: Solid
Date Collected: 03/15/24 00:00
Date Received: 03/15/24 16:20

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/18/24 10:41	03/21/24 01:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/18/24 10:41	03/21/24 01:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/18/24 10:41	03/21/24 01:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/18/24 10:41	03/21/24 01:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/18/24 10:41	03/21/24 01:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/18/24 10:41	03/21/24 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*03/18/24 10:41*	*03/21/24 01:03*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*03/18/24 10:41*	*03/21/24 01:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/21/24 01:03	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/21/24 20:36	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/20/24 10:51	03/21/24 20:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/20/24 10:51	03/21/24 20:36	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/20/24 10:51	03/21/24 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*56*	*S1-*	*70 - 130*	*03/20/24 10:51*	*03/21/24 20:36*	*1*
o-Terphenyl	*52*	*S1-*	*70 - 130*	*03/20/24 10:51*	*03/21/24 20:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**76.2**		4.96		mg/Kg			03/19/24 18:42	1

Client Sample ID: CS-2 (2.25')

Lab Sample ID: 880-40964-2
Matrix: Solid
Date Collected: 03/15/24 00:00
Date Received: 03/15/24 16:20

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/18/24 10:41	03/21/24 01:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/18/24 10:41	03/21/24 01:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/18/24 10:41	03/21/24 01:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/18/24 10:41	03/21/24 01:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/18/24 10:41	03/21/24 01:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/18/24 10:41	03/21/24 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*03/18/24 10:41*	*03/21/24 01:23*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*03/18/24 10:41*	*03/21/24 01:23*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40964-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-2 (2.25')

Lab Sample ID: 880-40964-2
Matrix: Solid
Date Collected: 03/15/24 00:00
Date Received: 03/15/24 16:20

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/21/24 01:23	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/21/24 20:58	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/20/24 10:51	03/21/24 20:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/20/24 10:51	03/21/24 20:58	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/20/24 10:51	03/21/24 20:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*57*	*S1-*	*70 - 130*	*03/20/24 10:51*	*03/21/24 20:58*	*1*
o-Terphenyl	*52*	*S1-*	*70 - 130*	*03/20/24 10:51*	*03/21/24 20:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36.7**		5.01		mg/Kg			03/19/24 18:48	1

Client Sample ID: CS-6 (2.25')

Lab Sample ID: 880-40964-3
Matrix: Solid
Date Collected: 03/15/24 00:00
Date Received: 03/15/24 16:20

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/18/24 10:41	03/21/24 01:44	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/18/24 10:41	03/21/24 01:44	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/18/24 10:41	03/21/24 01:44	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/18/24 10:41	03/21/24 01:44	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/18/24 10:41	03/21/24 01:44	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/18/24 10:41	03/21/24 01:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*03/18/24 10:41*	*03/21/24 01:44*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*03/18/24 10:41*	*03/21/24 01:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/21/24 01:44	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/21/24 21:20	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/20/24 10:51	03/21/24 21:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/20/24 10:51	03/21/24 21:20	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40964-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-6 (2.25')

Lab Sample ID: 880-40964-3
Matrix: Solid
Date Collected: 03/15/24 00:00
Date Received: 03/15/24 16:20

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/20/24 10:51	03/21/24 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*50*	*S1-*	*70 - 130*	*03/20/24 10:51*	*03/21/24 21:20*	*1*
o-Terphenyl	*45*	*S1-*	*70 - 130*	*03/20/24 10:51*	*03/21/24 21:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**47.0**		5.03		mg/Kg			03/19/24 18:55	1

Client Sample ID: CS-8 (2.25')

Lab Sample ID: 880-40964-4
Matrix: Solid
Date Collected: 03/15/24 00:00
Date Received: 03/15/24 16:20

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/18/24 10:41	03/21/24 02:04	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/18/24 10:41	03/21/24 02:04	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/18/24 10:41	03/21/24 02:04	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/18/24 10:41	03/21/24 02:04	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/18/24 10:41	03/21/24 02:04	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/18/24 10:41	03/21/24 02:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*03/18/24 10:41*	*03/21/24 02:04*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*03/18/24 10:41*	*03/21/24 02:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/21/24 02:04	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			03/21/24 21:42	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/20/24 10:51	03/21/24 21:42	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/20/24 10:51	03/21/24 21:42	1
OII Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/20/24 10:51	03/21/24 21:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*61*	*S1-*	*70 - 130*	*03/20/24 10:51*	*03/21/24 21:42*	*1*
o-Terphenyl	*60*	*S1-*	*70 - 130*	*03/20/24 10:51*	*03/21/24 21:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**77.6**		4.97		mg/Kg			03/19/24 19:01	1

Client Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40964-1
SDG: Eddy County, New Mexico

Client Sample ID: SW-16 (2')

Date Collected: 03/15/24 00:00
Date Received: 03/15/24 16:20

Lab Sample ID: 880-40964-5

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/18/24 10:41	03/21/24 02:24	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/18/24 10:41	03/21/24 02:24	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/18/24 10:41	03/21/24 02:24	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/18/24 10:41	03/21/24 02:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/18/24 10:41	03/21/24 02:24	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/18/24 10:41	03/21/24 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*03/18/24 10:41*	*03/21/24 02:24*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*03/18/24 10:41*	*03/21/24 02:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/21/24 02:24	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/21/24 19:30	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	49.8		mg/Kg		03/20/24 10:51	03/21/24 19:30	1
Diesel Range Organics (Over C10-C28)	<49.8	U F1	49.8		mg/Kg		03/20/24 10:51	03/21/24 19:30	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/20/24 10:51	03/21/24 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*03/20/24 10:51*	*03/21/24 19:30*	*1*
o-Terphenyl	*101*		*70 - 130*	*03/20/24 10:51*	*03/21/24 19:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**86.6**		4.98		mg/Kg			03/19/24 19:07	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40964-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-40964-1	CS-1 (2.25')	92	109
880-40964-1 MS	CS-1 (2.25')	113	108
880-40964-1 MSD	CS-1 (2.25')	105	103
880-40964-2	CS-2 (2.25')	110	117
880-40964-3	CS-6 (2.25')	113	112
880-40964-4	CS-8 (2.25')	118	111
880-40964-5	SW-16 (2')	109	108
LCS 880-75823/1-A	Lab Control Sample	104	96
LCSD 880-75823/2-A	Lab Control Sample Dup	110	103
MB 880-75823/5-A	Method Blank	125	124
MB 880-75843/5-B	Method Blank	126	127

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-40964-1	CS-1 (2.25')	56 S1-	52 S1-
880-40964-2	CS-2 (2.25')	57 S1-	52 S1-
880-40964-3	CS-6 (2.25')	50 S1-	45 S1-
880-40964-4	CS-8 (2.25')	61 S1-	60 S1-
880-40964-5	SW-16 (2')	104	101
880-40964-5 MS	SW-16 (2')	52 S1-	42 S1-
880-40964-5 MSD	SW-16 (2')	53 S1-	45 S1-
MB 880-76094/1-A	Method Blank	129	148 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40964-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-75823/5-A
Matrix: Solid
Analysis Batch: 76073

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 75823

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/18/24 10:41	03/21/24 00:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/18/24 10:41	03/21/24 00:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/18/24 10:41	03/21/24 00:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/18/24 10:41	03/21/24 00:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/18/24 10:41	03/21/24 00:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/18/24 10:41	03/21/24 00:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*03/18/24 10:41*	*03/21/24 00:34*	*1*
1,4-Difluorobenzene (Surr)	*124*		*70 - 130*	*03/18/24 10:41*	*03/21/24 00:34*	*1*

Lab Sample ID: LCS 880-75823/1-A
Matrix: Solid
Analysis Batch: 76073

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 75823

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1215		mg/Kg		121	70 - 130
Toluene	0.100	0.1130		mg/Kg		113	70 - 130
Ethylbenzene	0.100	0.1145		mg/Kg		114	70 - 130
m-Xylene & p-Xylene	0.200	0.2380		mg/Kg		119	70 - 130
o-Xylene	0.100	0.1155		mg/Kg		115	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-75823/2-A
Matrix: Solid
Analysis Batch: 76073

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 75823

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1245		mg/Kg		125	70 - 130	2	35
Toluene	0.100	0.1104		mg/Kg		110	70 - 130	2	35
Ethylbenzene	0.100	0.1148		mg/Kg		115	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.2481		mg/Kg		124	70 - 130	4	35
o-Xylene	0.100	0.1209		mg/Kg		121	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-40964-1 MS
Matrix: Solid
Analysis Batch: 76073

Client Sample ID: CS-1 (2.25')
Prep Type: Total/NA
Prep Batch: 75823

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0996	0.1127		mg/Kg		113	70 - 130
Toluene	<0.00199	U	0.0996	0.09392		mg/Kg		94	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40964-1
SDG: Eddy County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-40964-1 MS
Matrix: Solid
Analysis Batch: 76073

Client Sample ID: CS-1 (2.25')
Prep Type: Total/NA
Prep Batch: 75823

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0996	0.09564		mg/Kg		96	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2097		mg/Kg		105	70 - 130
o-Xylene	<0.00199	U	0.0996	0.1024		mg/Kg		102	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 880-40964-1 MSD
Matrix: Solid
Analysis Batch: 76073

Client Sample ID: CS-1 (2.25')
Prep Type: Total/NA
Prep Batch: 75823

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1082		mg/Kg		108	70 - 130	4	35
Toluene	<0.00199	U	0.100	0.09004		mg/Kg		90	70 - 130	4	35
Ethylbenzene	<0.00199	U	0.100	0.09048		mg/Kg		90	70 - 130	6	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1942		mg/Kg		97	70 - 130	8	35
o-Xylene	<0.00199	U	0.100	0.09525		mg/Kg		95	70 - 130	7	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 880-75843/5-B
Matrix: Solid
Analysis Batch: 76073

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 75843

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/19/24 16:35	03/20/24 12:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/19/24 16:35	03/20/24 12:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/19/24 16:35	03/20/24 12:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/19/24 16:35	03/20/24 12:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/19/24 16:35	03/20/24 12:56	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/19/24 16:35	03/20/24 12:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*03/19/24 16:35*	*03/20/24 12:56*	*1*
1,4-Difluorobenzene (Surr)	*127*		*70 - 130*	*03/19/24 16:35*	*03/20/24 12:56*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-76094/1-A
Matrix: Solid
Analysis Batch: 76143

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 76094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/20/24 10:51	03/21/24 18:25	1

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40964-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-76094/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 76143 — **Prep Batch: 76094**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/20/24 10:51	03/21/24 18:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/20/24 10:51	03/21/24 18:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*03/20/24 10:51*	*03/21/24 18:25*	*1*
o-Terphenyl	*148*	*S1+*	*70 - 130*	*03/20/24 10:51*	*03/21/24 18:25*	*1*

Lab Sample ID: LCS 880-76094/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 76143 — **Prep Batch: 76094**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	906.4		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	887.6		mg/Kg		89	70 - 130

Lab Sample ID: LCSD 880-76094/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 76143 — **Prep Batch: 76094**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	869.4		mg/Kg		87	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	864.4		mg/Kg		86	70 - 130	3	20

Lab Sample ID: 880-40964-5 MS — **Client Sample ID: SW-16 (2')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 76143 — **Prep Batch: 76094**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	995	507.5	F1	mg/Kg		47	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U F1	995	406.9	F1	mg/Kg		37	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*52*	*S1-*	*70 - 130*
o-Terphenyl	*42*	*S1-*	*70 - 130*

Lab Sample ID: 880-40964-5 MSD — **Client Sample ID: SW-16 (2')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 76143 — **Prep Batch: 76094**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1	995	591.4	F1	mg/Kg		55	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	<49.8	U F1	995	426.8	F1	mg/Kg		39	70 - 130	5	20

QC Sample Results

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40964-1
SDG: Eddy County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	53	S1-	70 - 130
o-Terphenyl	45	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-75950/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 76028

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/19/24 16:02	1

Lab Sample ID: LCS 880-75950/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 76028

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	248.1		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-75950/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 76028

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	248.3		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-40963-A-1-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 76028

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	42.3	F1	250	283.5		mg/Kg		97	90 - 110		

Lab Sample ID: 880-40963-A-1-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 76028

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	42.3	F1	250	261.6	F1	mg/Kg		88	90 - 110	8	20

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40964-1
SDG: Eddy County, New Mexico

GC VOA

Prep Batch: 75823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40964-1	CS-1 (2.25')	Total/NA	Solid	5035	
880-40964-2	CS-2 (2.25')	Total/NA	Solid	5035	
880-40964-3	CS-6 (2.25')	Total/NA	Solid	5035	
880-40964-4	CS-8 (2.25')	Total/NA	Solid	5035	
880-40964-5	SW-16 (2')	Total/NA	Solid	5035	
MB 880-75823/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-75823/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-75823/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-40964-1 MS	CS-1 (2.25')	Total/NA	Solid	5035	
880-40964-1 MSD	CS-1 (2.25')	Total/NA	Solid	5035	

Prep Batch: 75843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-75843/5-B	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 76073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40964-1	CS-1 (2.25')	Total/NA	Solid	8021B	75823
880-40964-2	CS-2 (2.25')	Total/NA	Solid	8021B	75823
880-40964-3	CS-6 (2.25')	Total/NA	Solid	8021B	75823
880-40964-4	CS-8 (2.25')	Total/NA	Solid	8021B	75823
880-40964-5	SW-16 (2')	Total/NA	Solid	8021B	75823
MB 880-75823/5-A	Method Blank	Total/NA	Solid	8021B	75823
MB 880-75843/5-B	Method Blank	Total/NA	Solid	8021B	75843
LCS 880-75823/1-A	Lab Control Sample	Total/NA	Solid	8021B	75823
LCSD 880-75823/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	75823
880-40964-1 MS	CS-1 (2.25')	Total/NA	Solid	8021B	75823
880-40964-1 MSD	CS-1 (2.25')	Total/NA	Solid	8021B	75823

Analysis Batch: 76226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40964-1	CS-1 (2.25')	Total/NA	Solid	Total BTEX	
880-40964-2	CS-2 (2.25')	Total/NA	Solid	Total BTEX	
880-40964-3	CS-6 (2.25')	Total/NA	Solid	Total BTEX	
880-40964-4	CS-8 (2.25')	Total/NA	Solid	Total BTEX	
880-40964-5	SW-16 (2')	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 76094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40964-1	CS-1 (2.25')	Total/NA	Solid	8015NM Prep	
880-40964-2	CS-2 (2.25')	Total/NA	Solid	8015NM Prep	
880-40964-3	CS-6 (2.25')	Total/NA	Solid	8015NM Prep	
880-40964-4	CS-8 (2.25')	Total/NA	Solid	8015NM Prep	
880-40964-5	SW-16 (2')	Total/NA	Solid	8015NM Prep	
MB 880-76094/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-76094/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-76094/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-40964-5 MS	SW-16 (2')	Total/NA	Solid	8015NM Prep	
880-40964-5 MSD	SW-16 (2')	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40964-1
SDG: Eddy County, New Mexico

GC Semi VOA

Analysis Batch: 76143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40964-1	CS-1 (2.25')	Total/NA	Solid	8015B NM	76094
880-40964-2	CS-2 (2.25')	Total/NA	Solid	8015B NM	76094
880-40964-3	CS-6 (2.25')	Total/NA	Solid	8015B NM	76094
880-40964-4	CS-8 (2.25')	Total/NA	Solid	8015B NM	76094
880-40964-5	SW-16 (2')	Total/NA	Solid	8015B NM	76094
MB 880-76094/1-A	Method Blank	Total/NA	Solid	8015B NM	76094
LCS 880-76094/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	76094
LCSD 880-76094/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	76094
880-40964-5 MS	SW-16 (2')	Total/NA	Solid	8015B NM	76094
880-40964-5 MSD	SW-16 (2')	Total/NA	Solid	8015B NM	76094

Analysis Batch: 76272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40964-1	CS-1 (2.25')	Total/NA	Solid	8015 NM	
880-40964-2	CS-2 (2.25')	Total/NA	Solid	8015 NM	
880-40964-3	CS-6 (2.25')	Total/NA	Solid	8015 NM	
880-40964-4	CS-8 (2.25')	Total/NA	Solid	8015 NM	
880-40964-5	SW-16 (2')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 75950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40964-1	CS-1 (2.25')	Soluble	Solid	DI Leach	
880-40964-2	CS-2 (2.25')	Soluble	Solid	DI Leach	
880-40964-3	CS-6 (2.25')	Soluble	Solid	DI Leach	
880-40964-4	CS-8 (2.25')	Soluble	Solid	DI Leach	
880-40964-5	SW-16 (2')	Soluble	Solid	DI Leach	
MB 880-75950/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-75950/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-75950/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-40963-A-1-D MS	Matrix Spike	Soluble	Solid	DI Leach	
880-40963-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 76028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40964-1	CS-1 (2.25')	Soluble	Solid	300.0	75950
880-40964-2	CS-2 (2.25')	Soluble	Solid	300.0	75950
880-40964-3	CS-6 (2.25')	Soluble	Solid	300.0	75950
880-40964-4	CS-8 (2.25')	Soluble	Solid	300.0	75950
880-40964-5	SW-16 (2')	Soluble	Solid	300.0	75950
MB 880-75950/1-A	Method Blank	Soluble	Solid	300.0	75950
LCS 880-75950/2-A	Lab Control Sample	Soluble	Solid	300.0	75950
LCSD 880-75950/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	75950
880-40963-A-1-D MS	Matrix Spike	Soluble	Solid	300.0	75950
880-40963-A-1-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	75950

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40964-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-1 (2.25')

Lab Sample ID: 880-40964-1
Matrix: Solid
Date Collected: 03/15/24 00:00
Date Received: 03/15/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	75823	03/18/24 10:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	76073	03/21/24 01:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76226	03/21/24 01:03	SM	EET MID
Total/NA	Analysis	8015 NM		1			76272	03/21/24 20:36	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	76094	03/20/24 10:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76143	03/21/24 20:36	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	75950	03/19/24 08:22	SA	EET MID
Soluble	Analysis	300.0		1			76028	03/19/24 18:42	CH	EET MID

Client Sample ID: CS-2 (2.25')

Lab Sample ID: 880-40964-2
Matrix: Solid
Date Collected: 03/15/24 00:00
Date Received: 03/15/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	75823	03/18/24 10:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	76073	03/21/24 01:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76226	03/21/24 01:23	SM	EET MID
Total/NA	Analysis	8015 NM		1			76272	03/21/24 20:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	76094	03/20/24 10:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76143	03/21/24 20:58	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	75950	03/19/24 08:22	SA	EET MID
Soluble	Analysis	300.0		1			76028	03/19/24 18:48	CH	EET MID

Client Sample ID: CS-6 (2.25')

Lab Sample ID: 880-40964-3
Matrix: Solid
Date Collected: 03/15/24 00:00
Date Received: 03/15/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	75823	03/18/24 10:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	76073	03/21/24 01:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76226	03/21/24 01:44	SM	EET MID
Total/NA	Analysis	8015 NM		1			76272	03/21/24 21:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	76094	03/20/24 10:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76143	03/21/24 21:20	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	75950	03/19/24 08:22	SA	EET MID
Soluble	Analysis	300.0		1			76028	03/19/24 18:55	CH	EET MID

Client Sample ID: CS-8 (2.25')

Lab Sample ID: 880-40964-4
Matrix: Solid
Date Collected: 03/15/24 00:00
Date Received: 03/15/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	75823	03/18/24 10:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	76073	03/21/24 02:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76226	03/21/24 02:04	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40964-1
SDG: Eddy County, New Mexico

Client Sample ID: CS-8 (2.25')

Lab Sample ID: 880-40964-4
Matrix: Solid
Date Collected: 03/15/24 00:00
Date Received: 03/15/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			76272	03/21/24 21:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	76094	03/20/24 10:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76143	03/21/24 21:42	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	75950	03/19/24 08:22	SA	EET MID
Soluble	Analysis	300.0		1			76028	03/19/24 19:01	CH	EET MID

Client Sample ID: SW-16 (2')

Lab Sample ID: 880-40964-5
Matrix: Solid
Date Collected: 03/15/24 00:00
Date Received: 03/15/24 16:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	75823	03/18/24 10:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	76073	03/21/24 02:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			76226	03/21/24 02:24	SM	EET MID
Total/NA	Analysis	8015 NM		1			76272	03/21/24 19:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	76094	03/20/24 10:51	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	76143	03/21/24 19:30	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	75950	03/19/24 08:22	SA	EET MID
Soluble	Analysis	300.0		1			76028	03/19/24 19:07	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40964-1
SDG: Eddy County, New Mexico

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40964-1
SDG: Eddy County, New Mexico

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Carmona Resources
Project/Site: Black River 4H

Job ID: 880-40964-1
SDG: Eddy County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-40964-1	CS-1 (2.25')	Solid	03/15/24 00:00	03/15/24 16:20
880-40964-2	CS-2 (2.25')	Solid	03/15/24 00:00	03/15/24 16:20
880-40964-3	CS-6 (2.25')	Solid	03/15/24 00:00	03/15/24 16:20
880-40964-4	CS-8 (2.25')	Solid	03/15/24 00:00	03/15/24 16:20
880-40964-5	SW-16 (2')	Solid	03/15/24 00:00	03/15/24 16:20

Released to Imaging: 5/7/2024 3:27:42 PM
Received by OCD: 5/6/2024 4:05:37 PM

880-40964 Chain of Custody

Page ___ ___

Project Manager	Clinton Merritt	Bill to (if different)	Isaac Castro
Company Name	Carmona Resources	Company Name	Marathon Oil Corporation
Address	310 W Wall St Ste 500	Address	990 Town and Country Blvd
City, State ZIP	Midland, TX 79701	City, State ZIP	Houston TX 77024
Phone		Email	icastro@marathonoil.com

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐

Deliverables EDD ☐ ADaPT ☐ Other

Project Name	Black River 4H	Turn Around	
Project Number	2224	☑ Routine	☐ Rush
Project Location	Eddy County, New Mexico	Due Date	5 Day TAT
Sampler's Name	CCM		
PO #:	CL.23 03716		

SAMPLE RECEIPT			
Temp Blank	Yes No	Wet Ice	Yes No
Received Intact:	Yes No	Thermometer ID	IR8
Cooler Custody Seals	Yes No N/A	Correction Factor	-1
Sample Custody Seals	Yes No N/A	Temperature Reading	1.0
Total Containers		Corrected Temperature	1.5

Preservative Codes

None NO; DI Water H_2O; Cool Cool; MeOH Me; HCL HC; HNO_3 HN; H_2S0_4 H_2; NaOH Na; H_3PO_4 HP; $NaHSO_4$ NABIS; $Na_2S_2O_3$ $NaSO_3$; Zn Acetate+NaOH Zn; NaOH+Ascorbic Acid SAPC

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300 0	Sample Comments
CS-1 (2 25')	3/15/2024		X		Comp	1		X	X	X	
CS-2 (2.25')	3/15/2024		X		Comp	1		X	X	X	
CS-6 (2.25')	3/15/2024		X		Comp	1		X	X	X	
CS-8 (2 25')	3/15/2024		X		Comp	1		X	X	X	
SW-16 (2')	3/15/2024		X		Comp	1		X	X	X	

Comments: Email results to Mike Carmona mcarmona@carmonaresources.com, Conner Moehring cmoehring@carmonaresources com, Clint Merritt MerrittC@carmonaresources com

Relinquished by (Signature)	Date/Time	Received by (Signature)	Date/Time
	3-15-24 1620		

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-40964-1
SDG Number: Eddy County, New Mexico

Login Number: 40964
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS

Action 341303

QUESTIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 341303
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2335628341**
Incident Name	**NAPP2335628341 BLACK RIVER 15 10 STATE COM X #004H @ 30-015-43959**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-015-43959] BLACK RIVER 15 10 STATE COM X #004H**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	BLACK RIVER 15 10 STATE COM X #004H
Date Release Discovered	12/21/2023
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	*Not answered.*
Produced Water Released (bbls) Details	Cause: Corrosion | Production Tank | Produced Water | Released: 10 BBL | Recovered: 10 BBL | Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 341303
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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.

I hereby agree and sign off to the above statement	Name: Isaac Castro Email: icastro@marathonoil.com Date: 05/06/2024

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QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 341303
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 300 and 500 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	3080
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	74.4
GRO+DRO (EPA SW-846 Method 8015M)	74.4
BTEX (EPA SW-846 Method 8021B or 8260B)	0.1
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	02/24/2024
On what date will (or did) the final sampling or liner inspection occur	03/15/2024
On what date will (or was) the remediation complete(d)	03/26/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	1858
What is the estimated volume (in cubic yards) that will be remediated	160
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 341303
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
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.	
I hereby agree and sign off to the above statement	Name: Isaac Castro Email: icastro@marathonoil.com Date: 05/06/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 341303
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

District I
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QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 341303
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**322553**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**03/15/2024**
What was the (estimated) number of samples that were to be gathered	**5**
What was the sampling surface area in square feet	**1858**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	160
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	All final confirmation samples were below the regulatory requirements for TPH, BTEX, and chloride. Refer to Table 2. Initial investigation sample results showed all contaminates remained on pad. No reclamation activates needed to be conducted off pad. Marathon requests closure of the release.

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement	Name: Isaac Castro Email: icastro@marathonoil.com Date: 05/06/2024

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

QUESTIONS (continued)

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 341303
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 341303

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 341303
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CONDITIONS

Created By	Condition	Condition Date
scwells	None	5/7/2024