CARMONA RESOURCES

SITE INFORMATION

Deferral Report
Maduro North Federal 4H (04.29.2025)
Incident ID: NAPP2512052637
Lea County, New Mexico
Unit D, Sec 20, T19S, R33E
32.65122°, -103.69252°

Produced Water and Crude Oil Release
Point of Release: Production Tank Overflowed
Release Date: 04.29.2025
Volume Released: 40 Barrels of Crude Oil and 920 Barrels of Produced Water
Volume Recovered: 40 Barrels of Crude Oil and 835 Barrels of Produced Water

CARMONA RESOURCES

Prepared for:
Cimarex Energy Co.
6001 Deauville Blvd.
Suite 300N
Midland, Texas 79706

Prepared by:
Carmona Resources, LLC
310 West Wall Street
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CARMONA RESOURCES

TABLE OF CONTENTS

1.0 SITE INFORMATION AND BACKGROUND

2.0 SITE CHARACTERIZATION AND GROUNDWATER

3.0 NMAC REGULATORY CRITERIA

4.0 REMEDIATION ACTIVITIES

5.0 REVEGETATION ACTIVITES

6.0 LINER INSPECTION ACTIVTIES

7.0 CONCLUSIONS

FIGURES

FIGURE 1	**OVERVIEW**	**FIGURE 2**	**TOPOGRAPHIC**
FIGURE 3	**SPILL OVERVIEW**	**FIGURE 4A-4Q**	**EXCAVATION DEPTH**
FIGURE 5	**DEFERMENT AREA**	**FIGURE 6**	**REVEGETATION AREA**
FIGURE 7	**CONTAINMENT AREA**		

APPENDICES

APPENDIX A	**TABLES**
APPENDIX B	**PHOTOS**
APPENDIX C	**NMOCD CORRESPONDENCE**
APPENDIX D	**SITE CHARACTERIZATION AND GROUNDWATER**
APPENDIX E	**LABORATORY REPORTS**

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CARMONA RESOURCES

September 24, 2025

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

Re: **Deferral Report**
Maduro North Federal 4H (04.29.2025)
Incident ID: NAPP2512052637
Cimarex Energy Co.
Site Location: Unit D, S20, T19S, R33E
32.65122°, -103.69252°
Lea County, New Mexico

To whom it may concern:

On behalf of Cimarex Energy Co. (Cimarex) Carmona Resources LLC, has prepared this letter to document the remediation activities for the Maduro North Federal 4H release. The site is located at 32.65122°, -103.69252° within Unit D, S20, T19S, R33E, in Lea County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

Based on the Notification of Release obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on April 29, 2025, due to a production tank overflowing causing the containment to overrun resulting in the release. It resulted in approximately nine hundred twenty (920) barrels of produced water and forty (40) barrels of crude oil being released, with eight hundred thirty-five (835) barrels of produced water and forty (40) barrels of crude oil recovered. The release area is approximately 31,066 sq ft. The spill boundaries are shown in Figure 3. The Notification of Release and Initial C-141 form is attached in Appendix C.

2.0 Site Characterization and Groundwater

The site is located within a low karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there are no known water sources within a 0.50-mile radius of the location. The nearest Groundwater Determination Bore (GWDB) is approximately 0.29 miles South of the site in S20, T19S, R33E, (32.646964°, -103.691908°) and was drilled in 2025. The GWDB was drilled to 105 feet below the ground surface (ft bgs) and did not have any evidence of groundwater present. A copy of the associated well log 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 and remediating the site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 1,000 mg/kg (GRO + DRO).
- TPH: 2,500 mg/kg (GRO + DRO + MRO).
- Chloride: 20,000 mg/kg.

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4.0 Remediation Activities

Beginning on July 29, 2025, Carmona Resources personnel were onsite to supervise the remediation activities, collect confirmation samples, and document backfill activities. Before collecting composite confirmation samples, the NMOCD division office was notified via NMOCD portal on July 24, 2025, August 6, 2025, and August 14, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area was excavated to a depth ranging from 0.5 ft to 4.5 ft bgs. A total of one hundred sixty-one (161) confirmation floor samples (CS-1 through CS-161), and one hundred seventy-three (173) sidewall samples (SW-1 through SW-173) were collected every 200 square feet to ensure the proper removal of the contaminated soils. For chemical analysis, the soil samples were collected and placed into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. All collected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and Chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E.

All final confirmation samples were below the regulatory requirements for TPH, BTEX, and Chloride. Refer to Table 1. The excavation depth and confirmation sample locations are shown in Figure 4A through 4Q.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. A composite sample of the backfill material was collected for laboratory analysis on August 5, 2025, before being utilized. The backfill material was sourced from the local land owner at 32.628917, -103.612389. Refer to Table 1. Approximately 30,974 square feet of contamination was remediated, resulting in 4,448 cubic yards of material being excavated and transported offsite for proper disposal.

Deferment Area

The area surrounding a utility pole and guy wire anchor will be deferred per 19.15.29.12.C.2 NMAC. To remove all contaminated material, major powerline deconstruction would have to take place. Due to these powerlines and utility poles terminating at the above mentioned well pad and tank battery, when the time comes to plug, abandon, and reclaim the well pad and tank battery, the power lines and utility poles will all be removed. No additional well locations or facilities are projected to be placed past this current facility. During plugging and abandonment activities, electrical utilities will be removed until the point of the next active facility, located to the south. Removing soil within that area could potentially cause structural instability and might result in extensive utility damage as backfill material can shift and settle over time. The deferred area is defined within sidewall samples SW-62 through SW-69. Approximately 92 square feet, resulting in 15 cubic yards of contamination will be remediated during plugging and abandonment activities of the facility or when equipment is removed, whichever comes first. Refer to Table 1 and Figure 5.

5.0 Revegetation Activities

On September 4, 2025, the backfilled areas in the pasture were seeded via a tractor pulled seed broadcaster with the appropriate pounds of pure live seed per acre. The topsoil was ripped with a tractor pulled scarifier to aid the vegetation process. The seed mixture used was BLM LPC Sandy Mixture. The reclaimed and reseeded area is approximately 24,906 square feet. See Figure 6 for the revegetation area.

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6.0 Liner Inspection Activities

Prior to Carmona Resources conducting a Liner Inspection, Cimarex contractors removed all fluid and washed the containment. The NMOCD division office was notified via NMOCD portal on September 19, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C for the NMOCD correspondence prior to performing the liner inspection. Following that, there was a weather event on September 23, 2025 prior to the official inspection date, leaving minimal rainwater inside the containment. The slight rainwater inside of the containment does demonstrate that the containment holds fluid in the event of a release. On September 24, 2025, Carmona Resources, LLC conducted liner inspection activities to assess the tank batteries lined containment integrity and determined there were no integrity issues. Refer to the Photolog in Appendix A. Figure 7 shows the containment area outline.

7.0 Conclusions

Based on the area, safety, and active powerlines, Cimarex requests to defer the TPH and Chloride impact surrounding the utility pole and guy wire anchor. The site has been fully delineated by way of composite confirmation sidewall samples and composite deferral sidewall samples during remediation activities to satisfy the requirements of 19.15.29.12.C.2 NMAC. Remediation of the deferred area will be completed during abandonment activities of the facility or when equipment is removed, whichever comes first, removing approximately 15 cubic yards of material. Reclamation of the entire 92 sq ft of the previously impacted area will take place at that time. If you have any questions regarding this report or need additional information, please contact us at 432-813-8988.

Sincerely,
Carmona Resources, LLC

Ashton Thielke
Environmental Manager

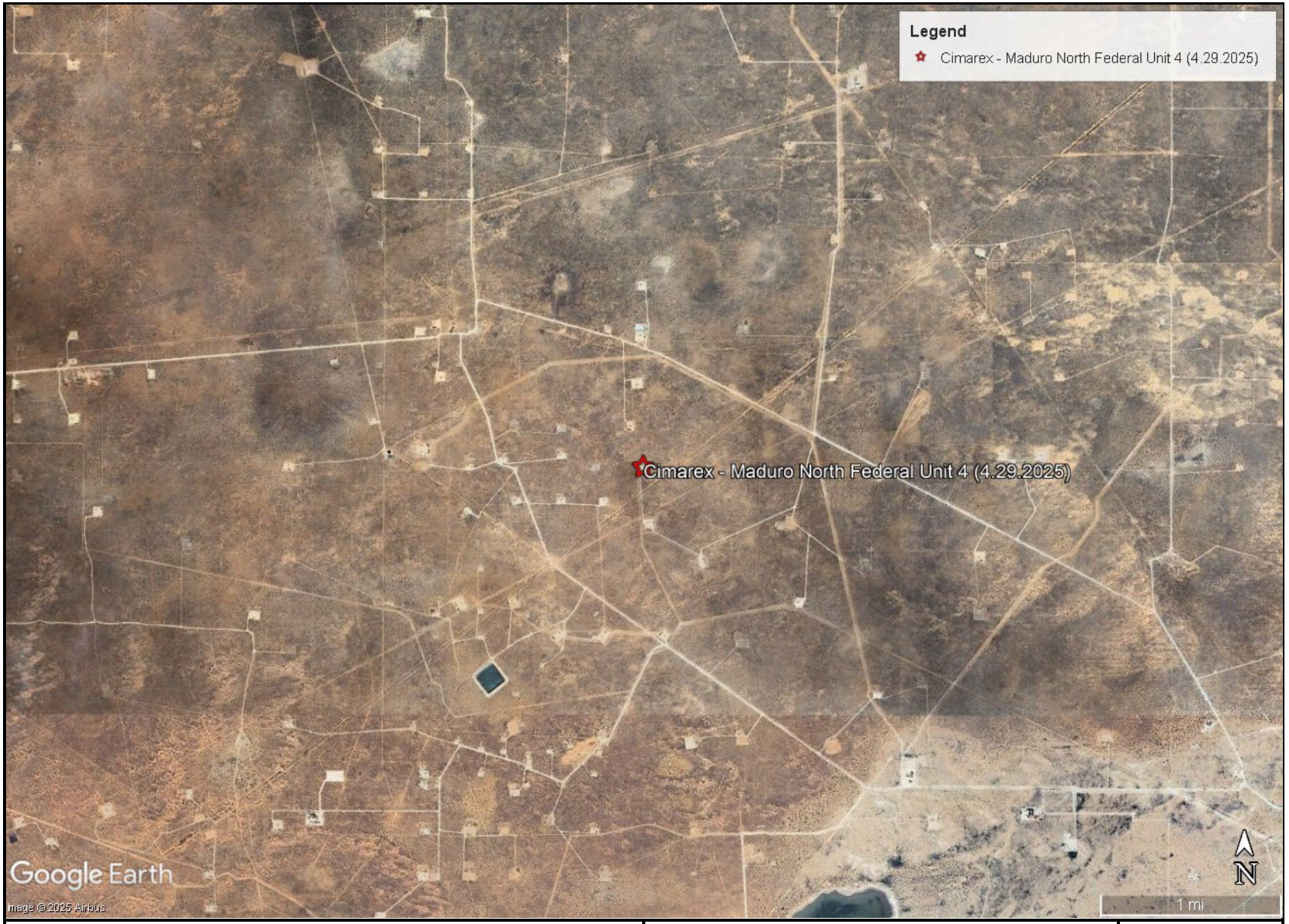
Gilbert Priego Jr
Project Manager

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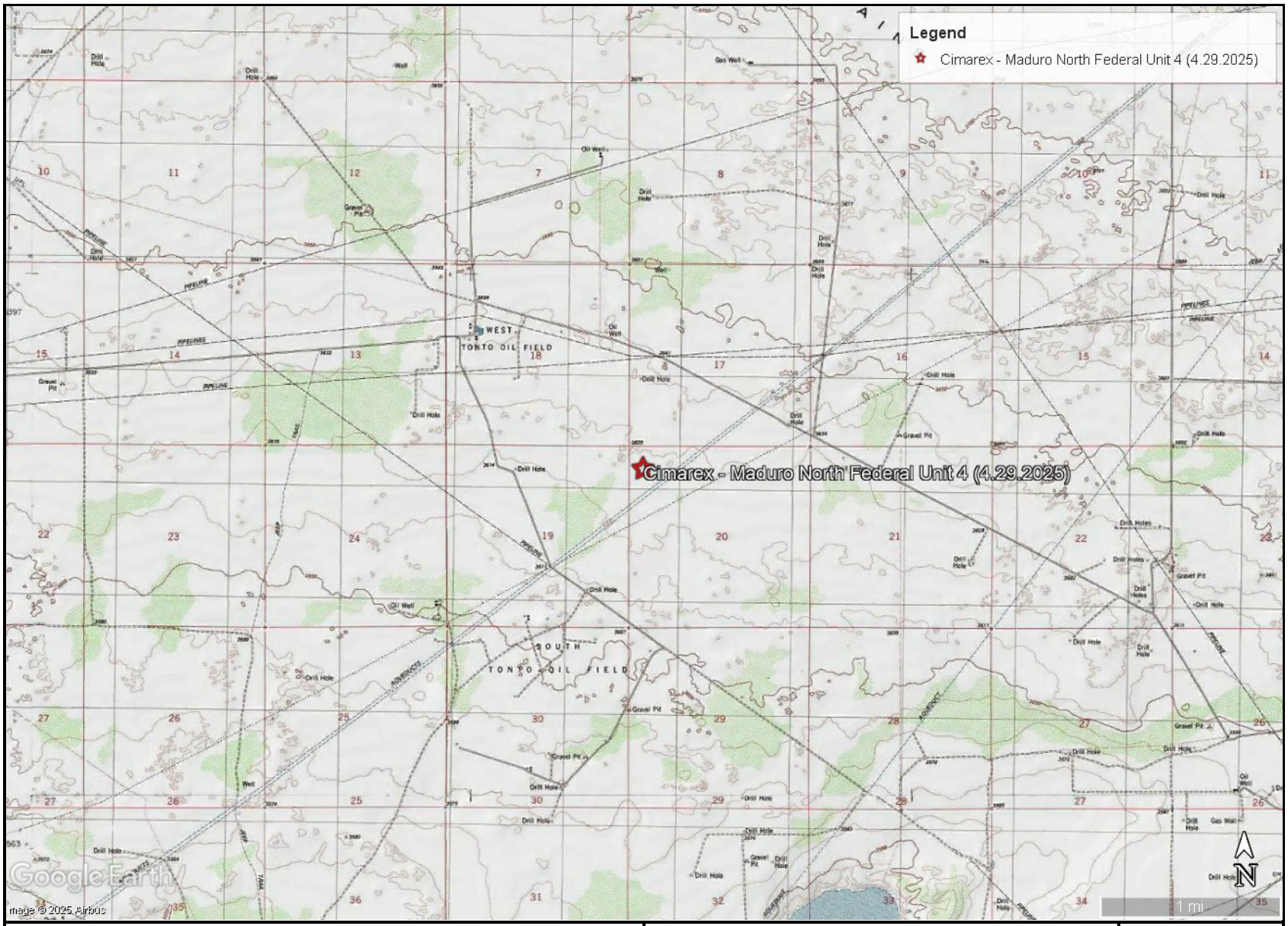
FIGURES

CARMONA RESOURCES

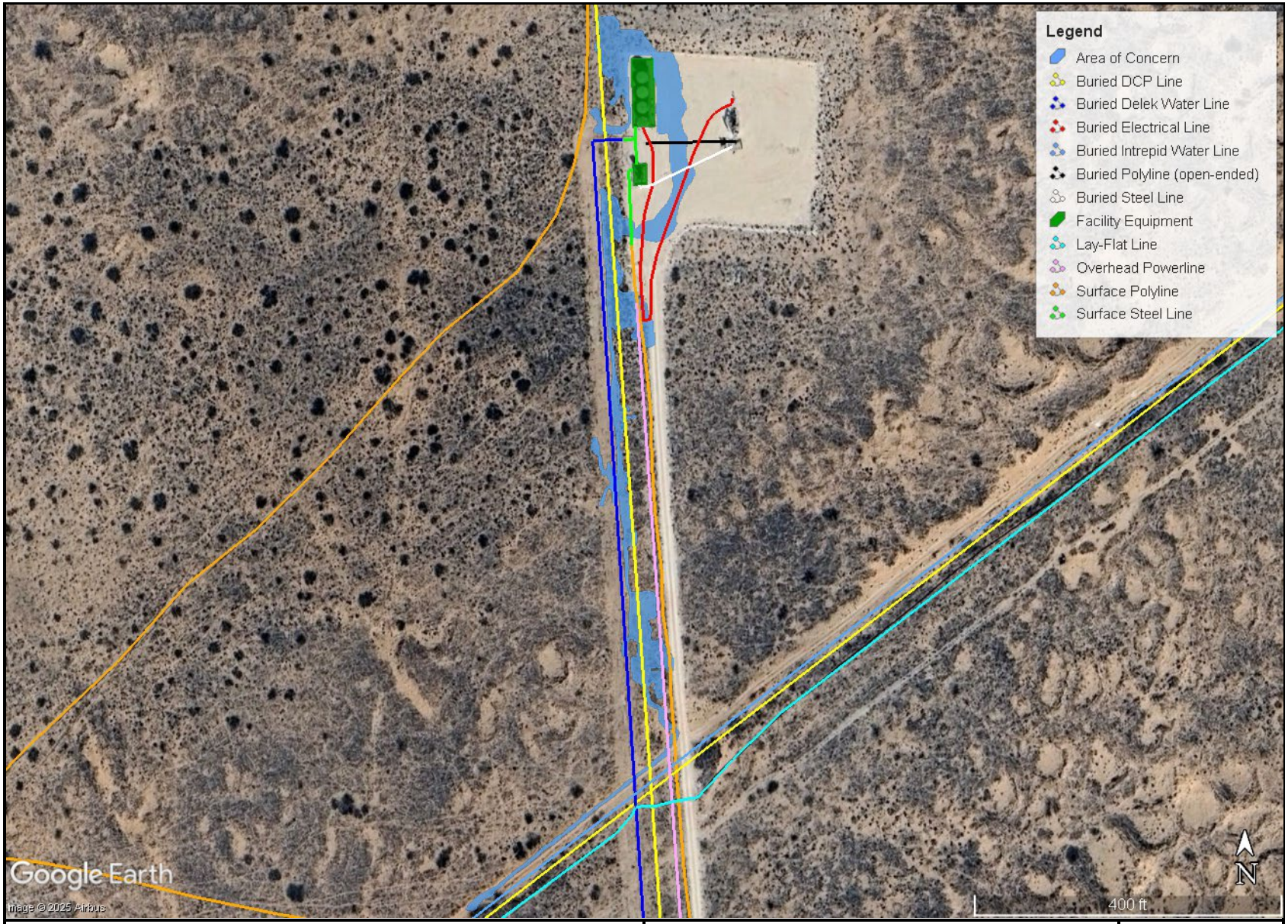




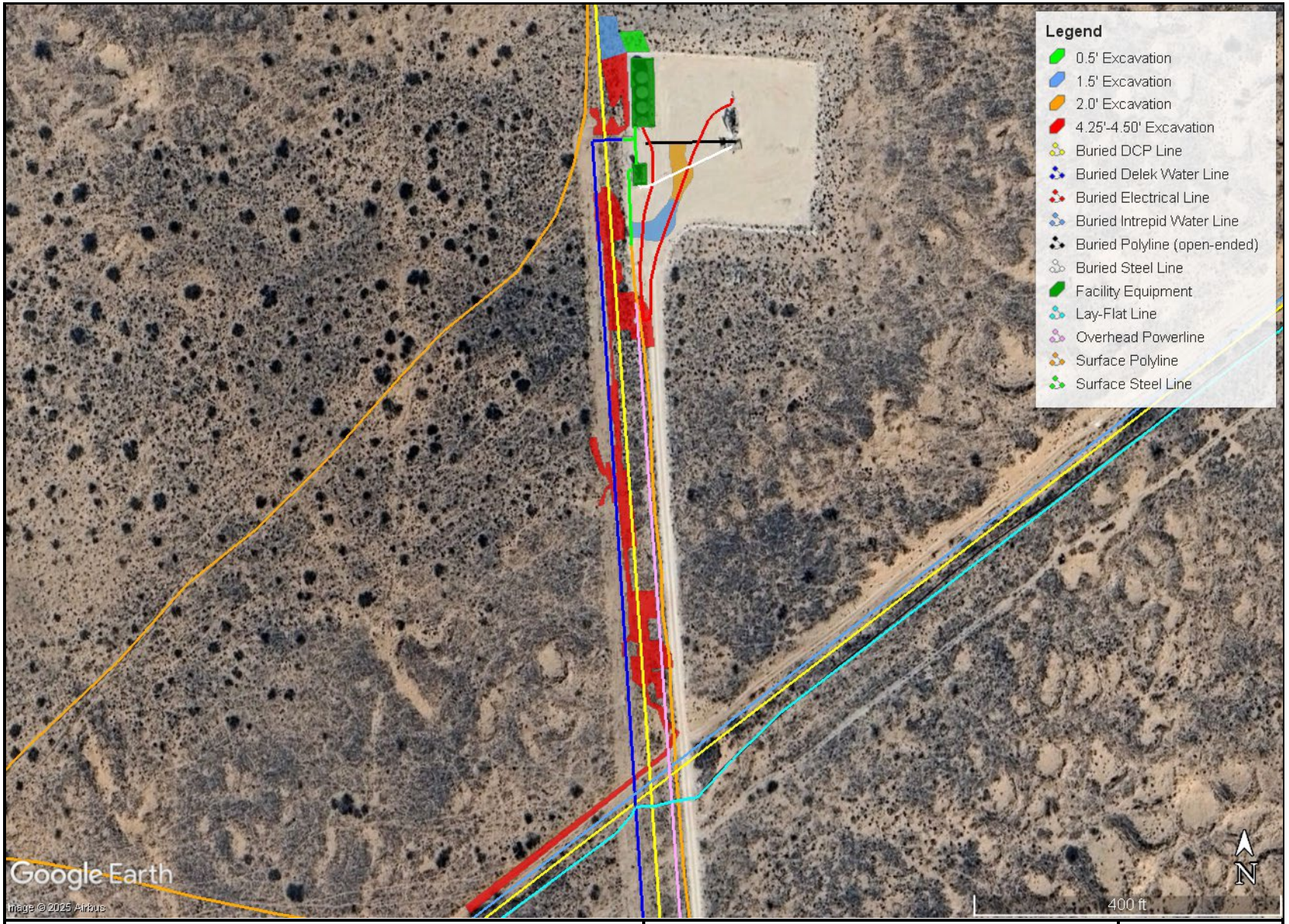
OVERVIEW MAP CIMAREX ENERGY CO. MADURO NORTH FEDERAL 4H LEA COUNTY, NEW MEXICO 32.65122°, -103.69252°	CARMONA RESOURCES	FIGURE 1



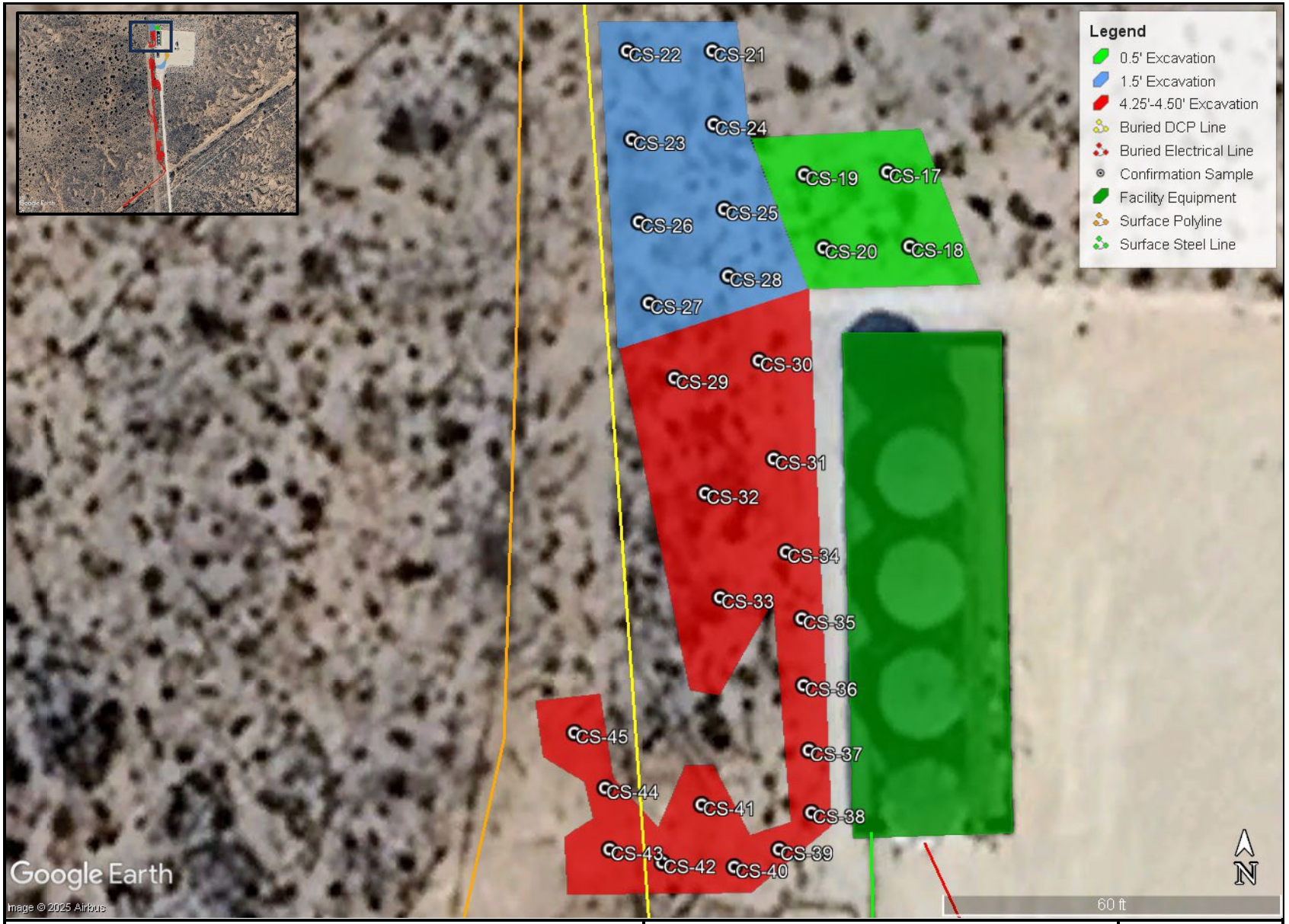
TOPOGRAPHIC MAP CIMAREX ENERGY CO. MADURO NORTH FEDERAL 4H LEA COUNTY, NEW MEXICO 32.65122°, -103.69252°	CARMONA RESOURCES	FIGURE 2



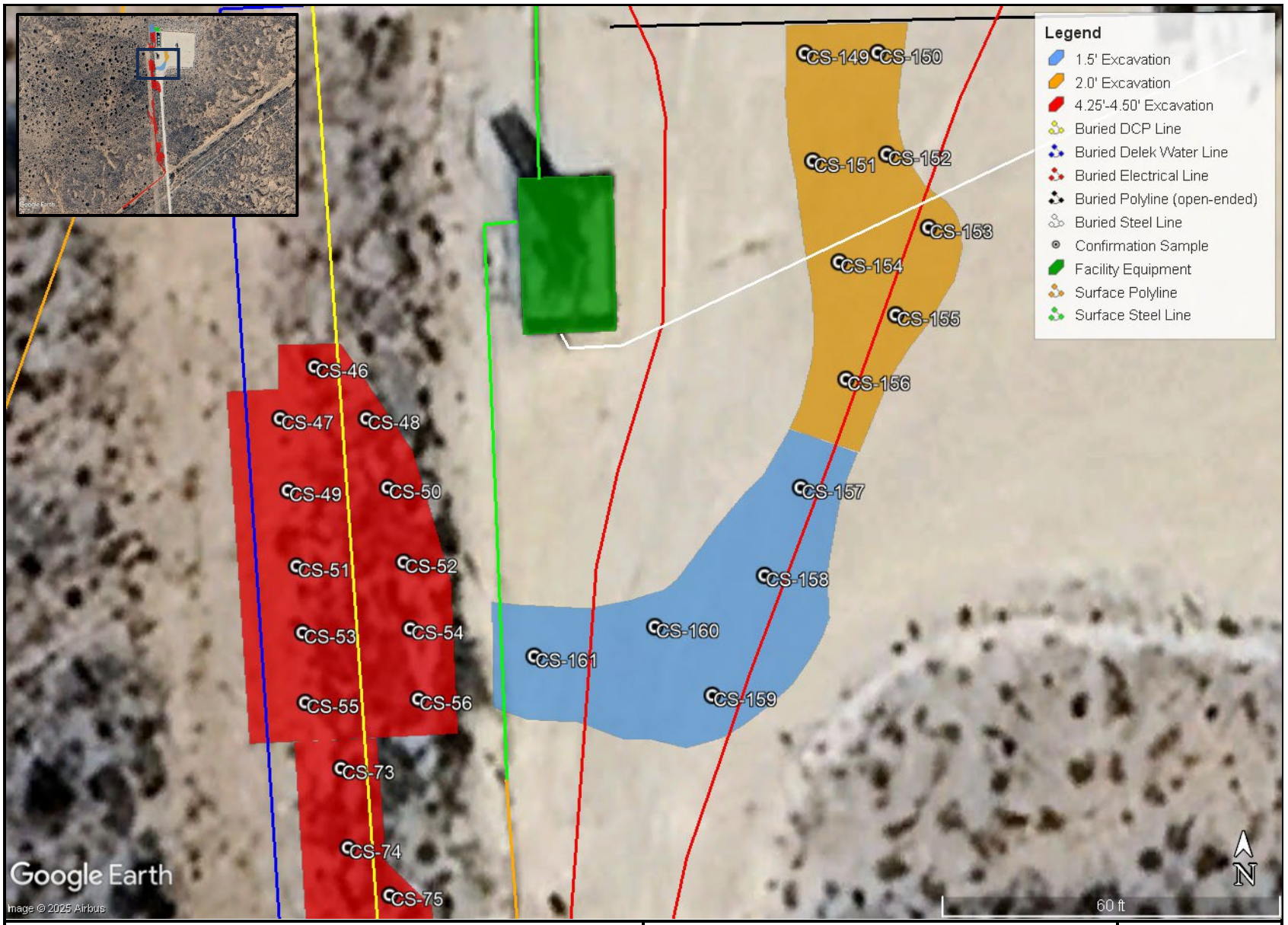
SPILL OVERVIEW MAP CIMAREX ENERGY CO. MADURO NORTH FEDERAL 4H LEA COUNTY, NEW MEXICO 32.65122°, -103.69252°	CARMONA RESOURCES	FIGURE 3



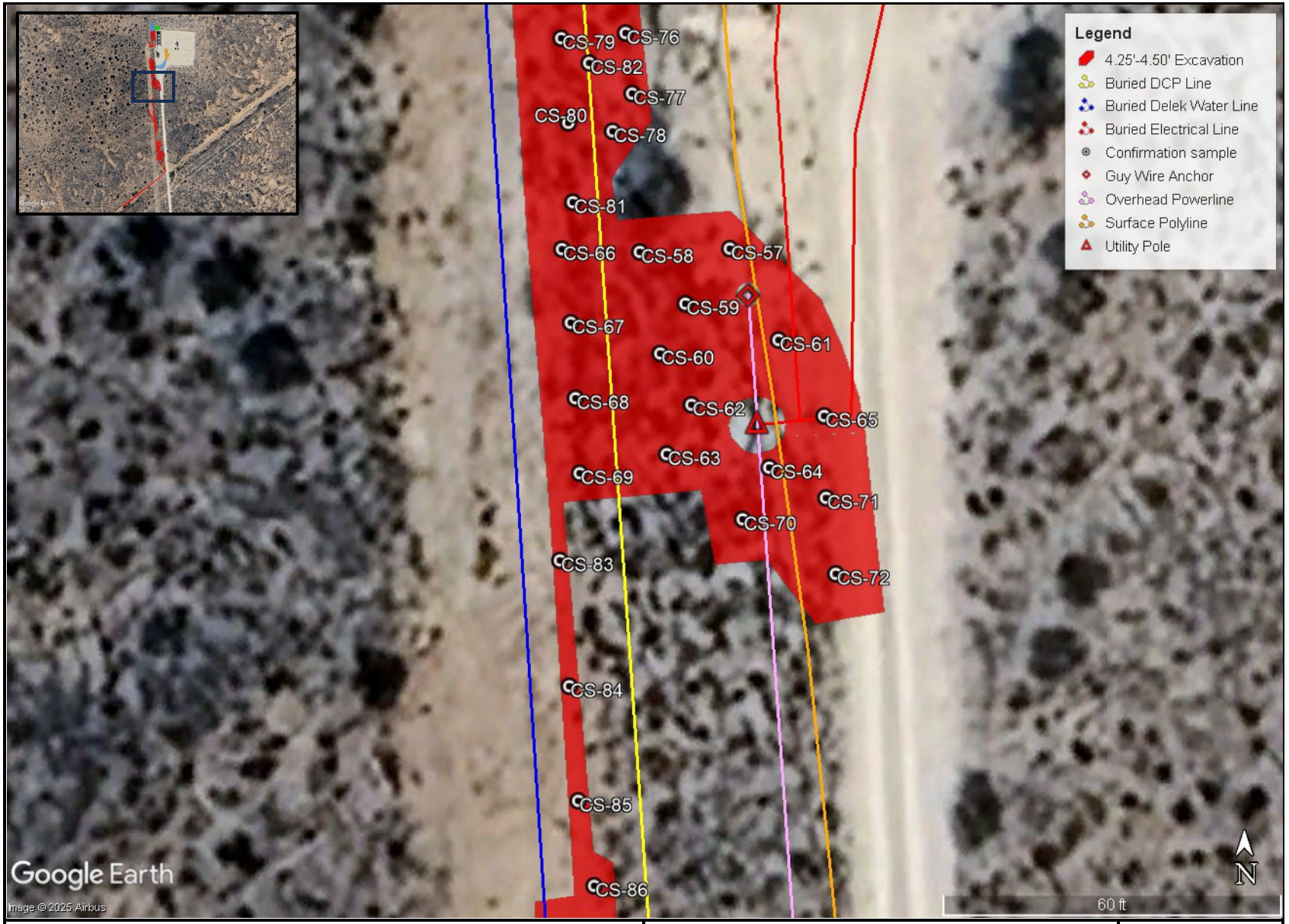
EXCAVATION DEPTH OVERVIEW MAP CIMAREX ENERGY CO. MADURO NORTH FEDERAL 4H LEA COUNTY, NEW MEXICO 32.65122°, -103.69252°	CARMONA RESOURCES	FIGURE 4A



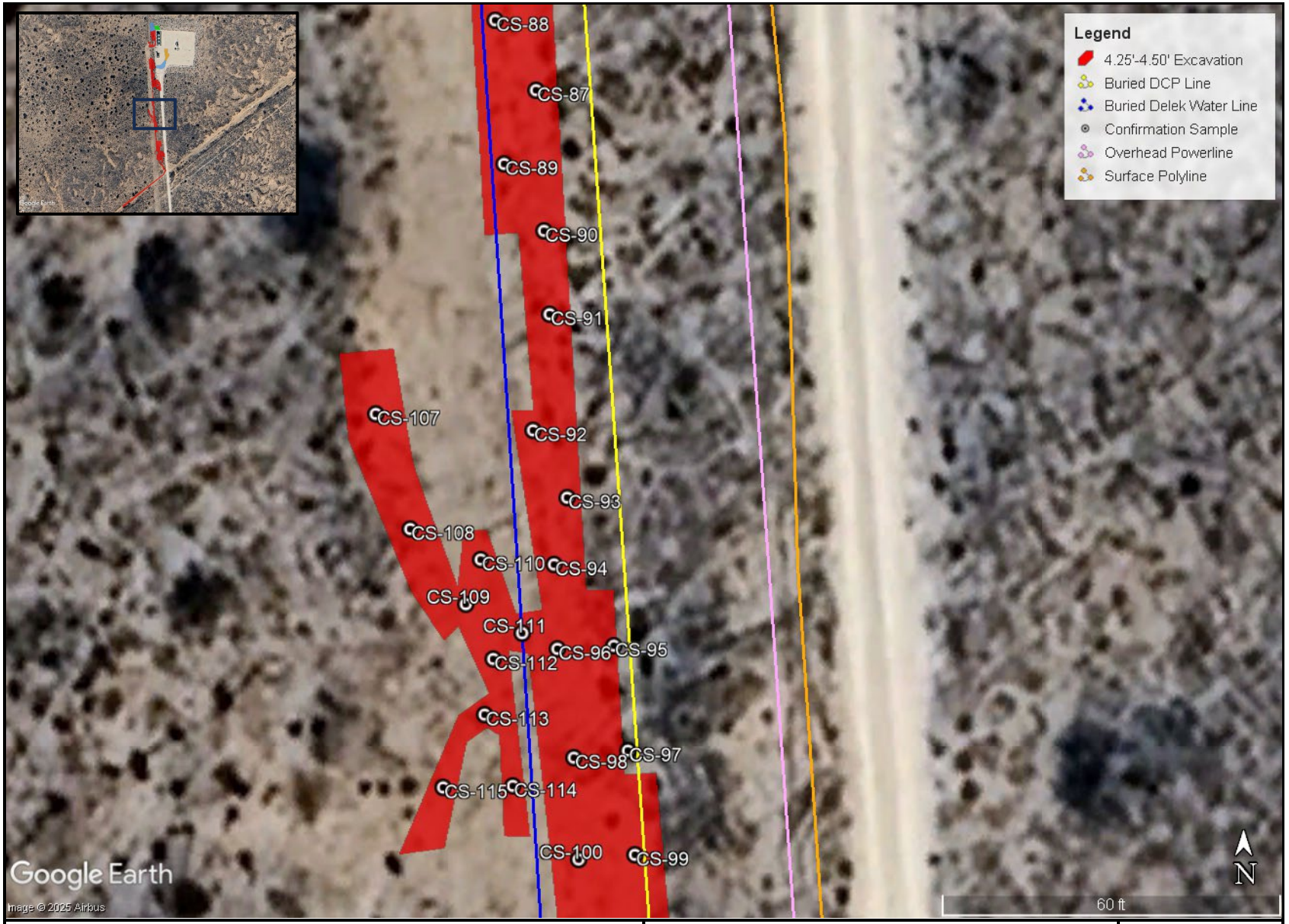
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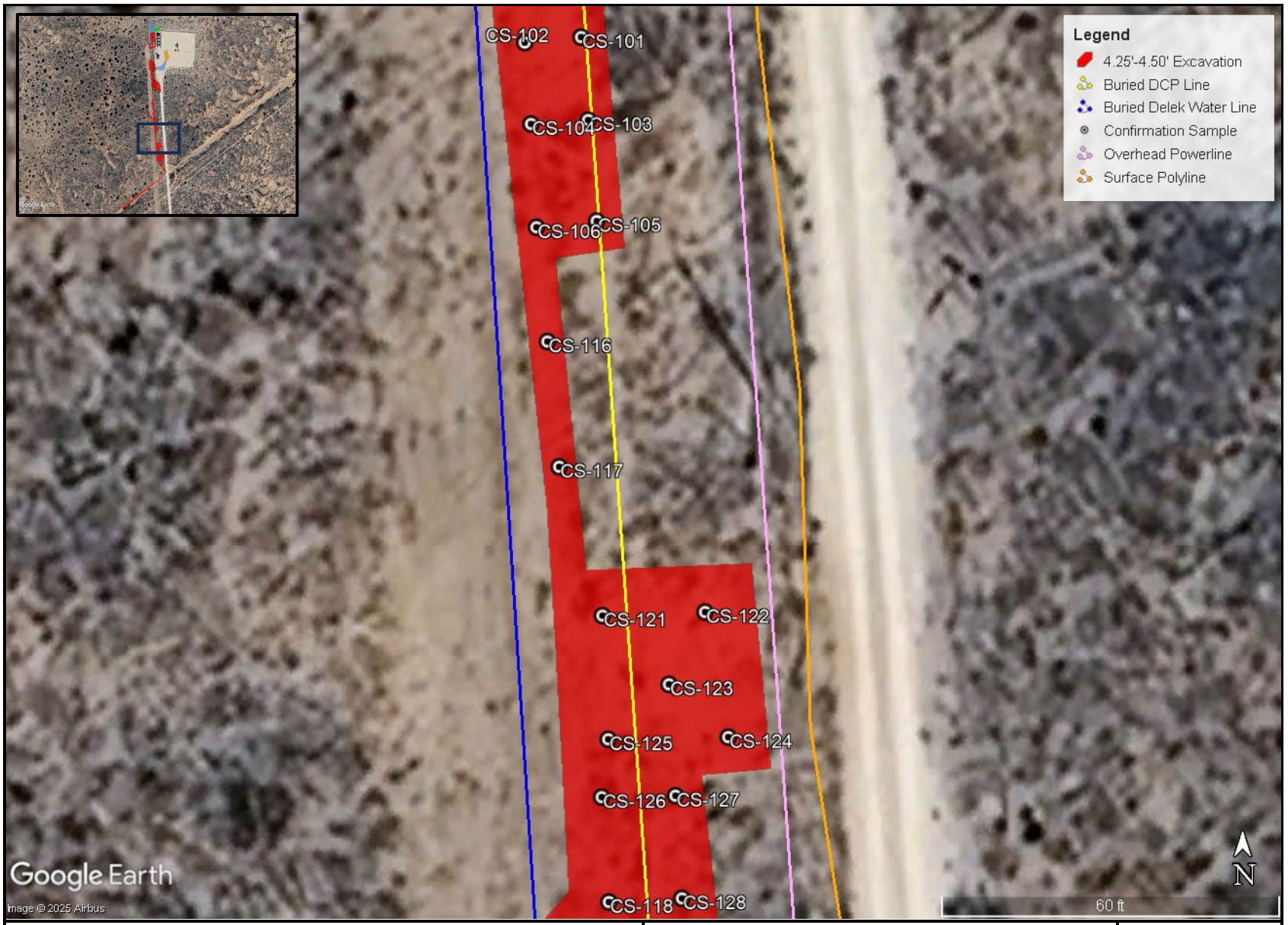
EXCAVATION DEPTH MAP CIMAREX ENERGY CO. MADURO NORTH FEDERAL 4H LEA COUNTY, NEW MEXICO 32.65122°, -103.69252°	CARMONA RESOURCES	FIGURE 4C



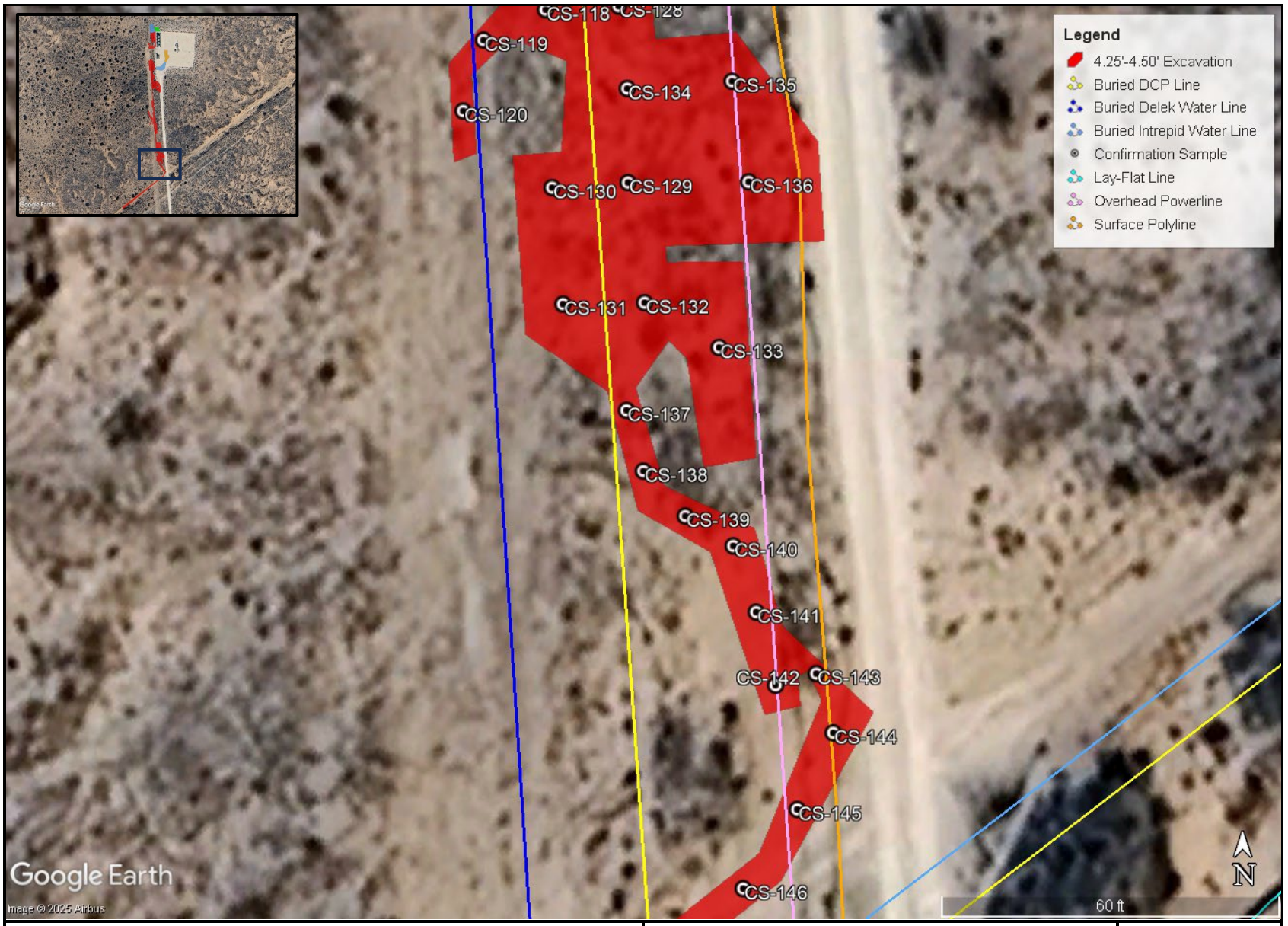
EXCAVATION DEPTH MAP CIMAREX ENERGY CO. MADURO NORTH FEDERAL 4H LEA COUNTY, NEW MEXICO 32.65122°, -103.69252°	CARMONA RESOURCES	FIGURE 4D



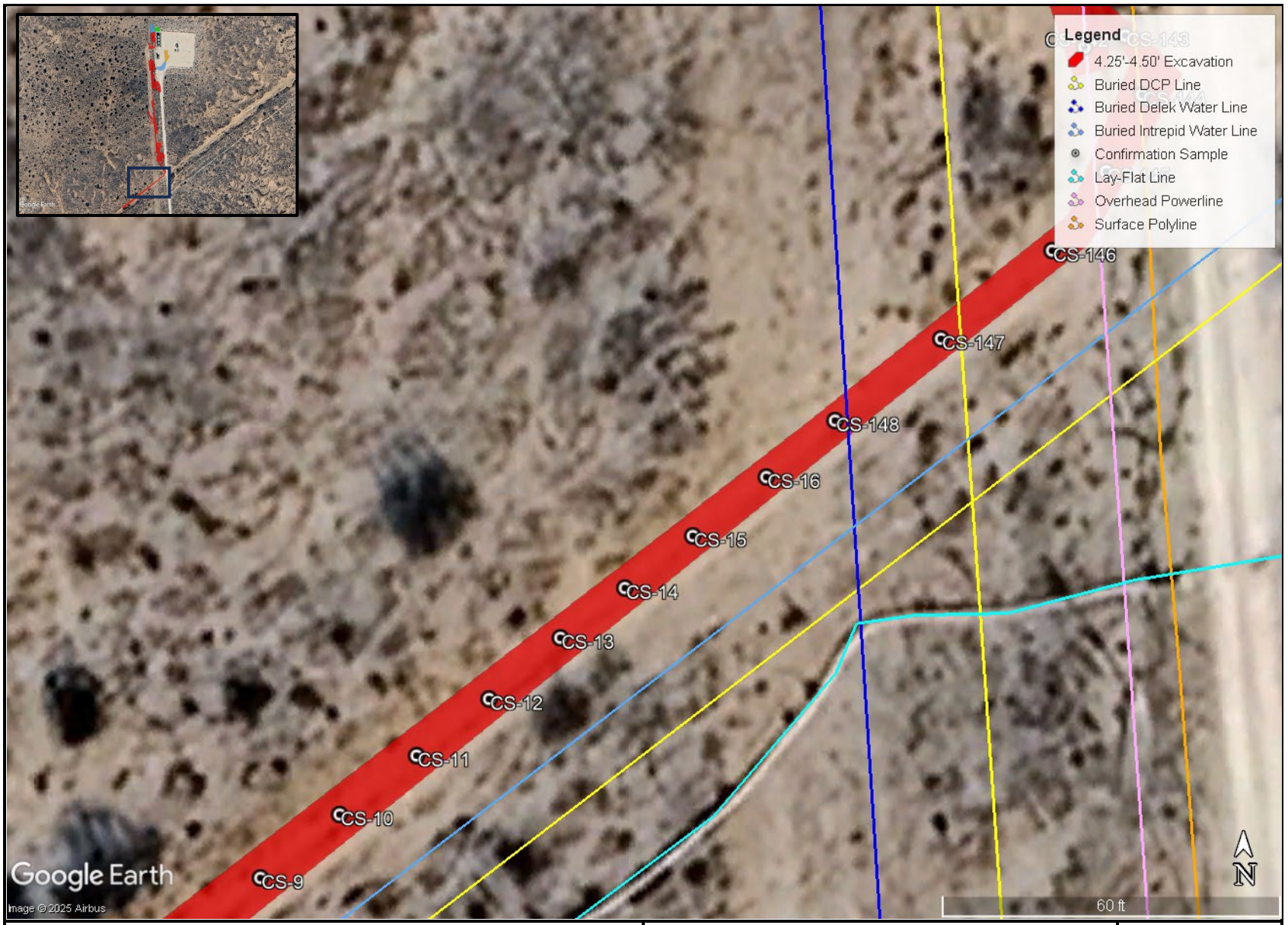
EXCAVATION DEPTH MAP CIMAREX ENERGY CO. MADURO NORTH FEDERAL 4H LEA COUNTY, NEW MEXICO 32.65122°, -103.69252°	CARMONA RESOURCES	FIGURE 4E



EXCAVATION DEPTH MAP CIMAREX ENERGY CO. MADURO NORTH FEDERAL 4H LEA COUNTY, NEW MEXICO 32.65122°, -103.69252°	CARMONA RESOURCES	FIGURE 4F



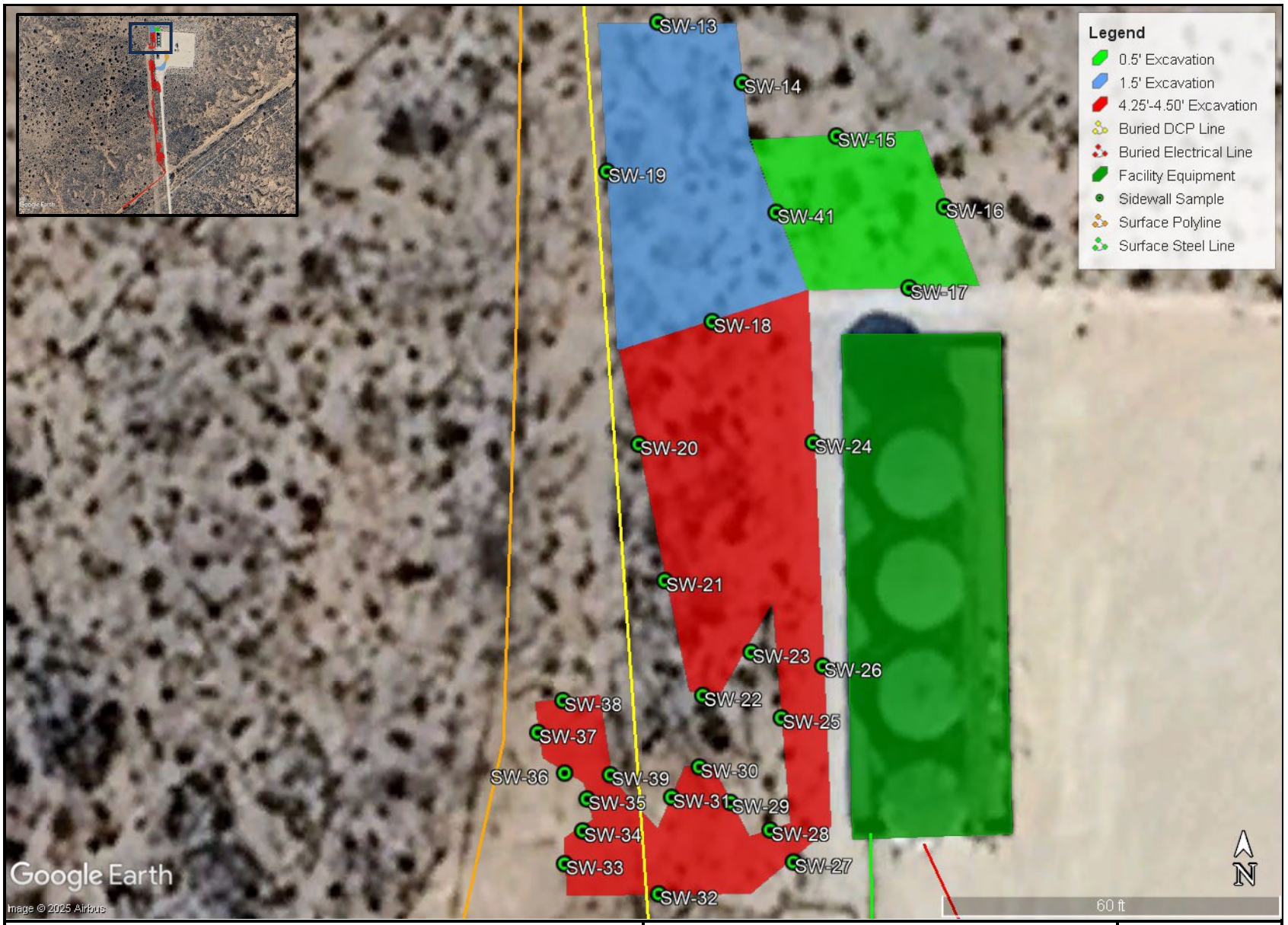
EXCAVATION DEPTH MAP CIMAREX ENERGY CO. MADURO NORTH FEDERAL 4H LEA COUNTY, NEW MEXICO 32.65122°, -103.69252°	CARMONA RESOURCES	FIGURE 4G



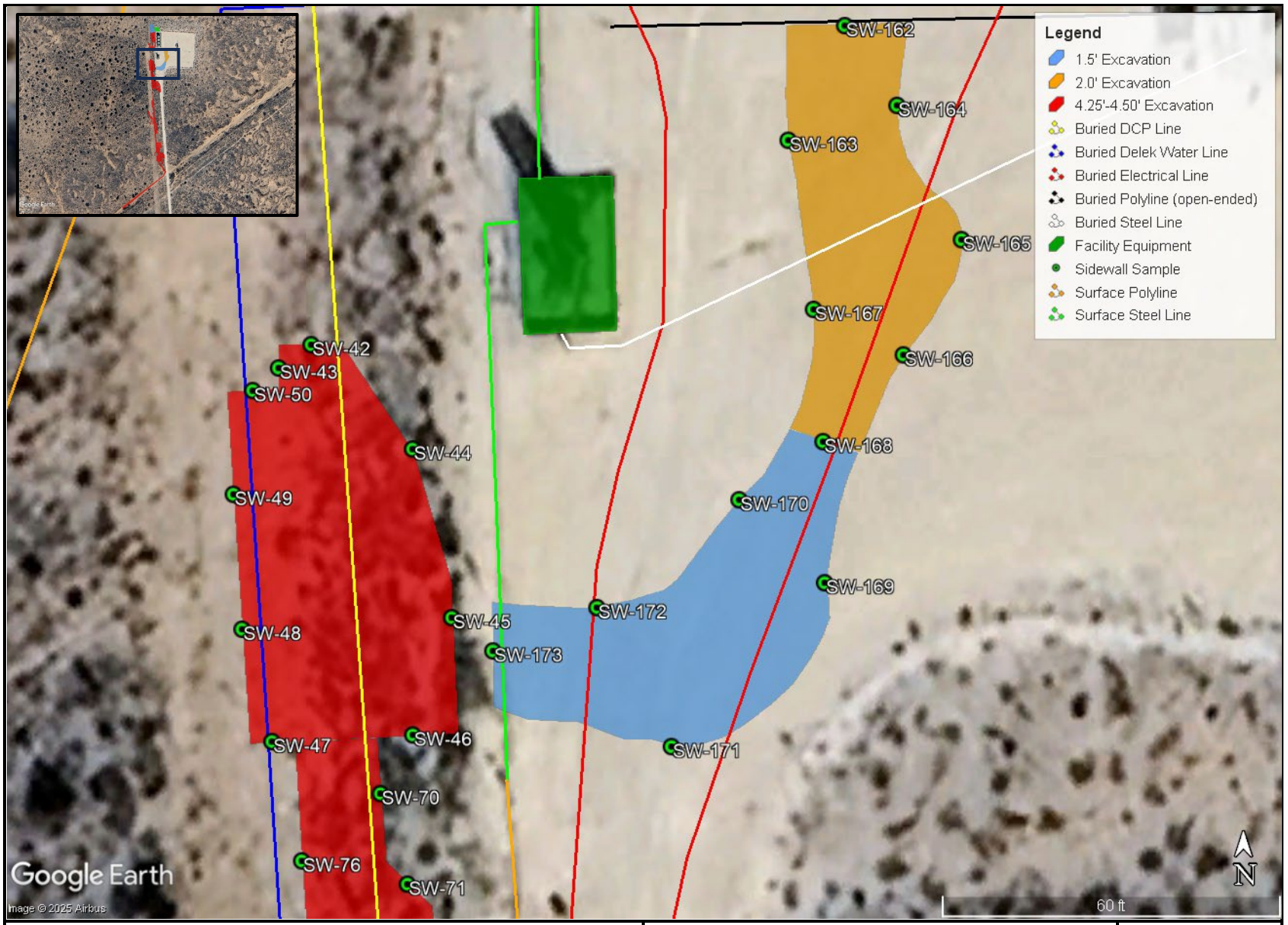
EXCAVATION DEPTH MAP CIMAREX ENERGY CO. MADURO NORTH FEDERAL 4H LEA COUNTY, NEW MEXICO 32.65122°, -103.69252°	CARMONA RESOURCES	FIGURE 4H



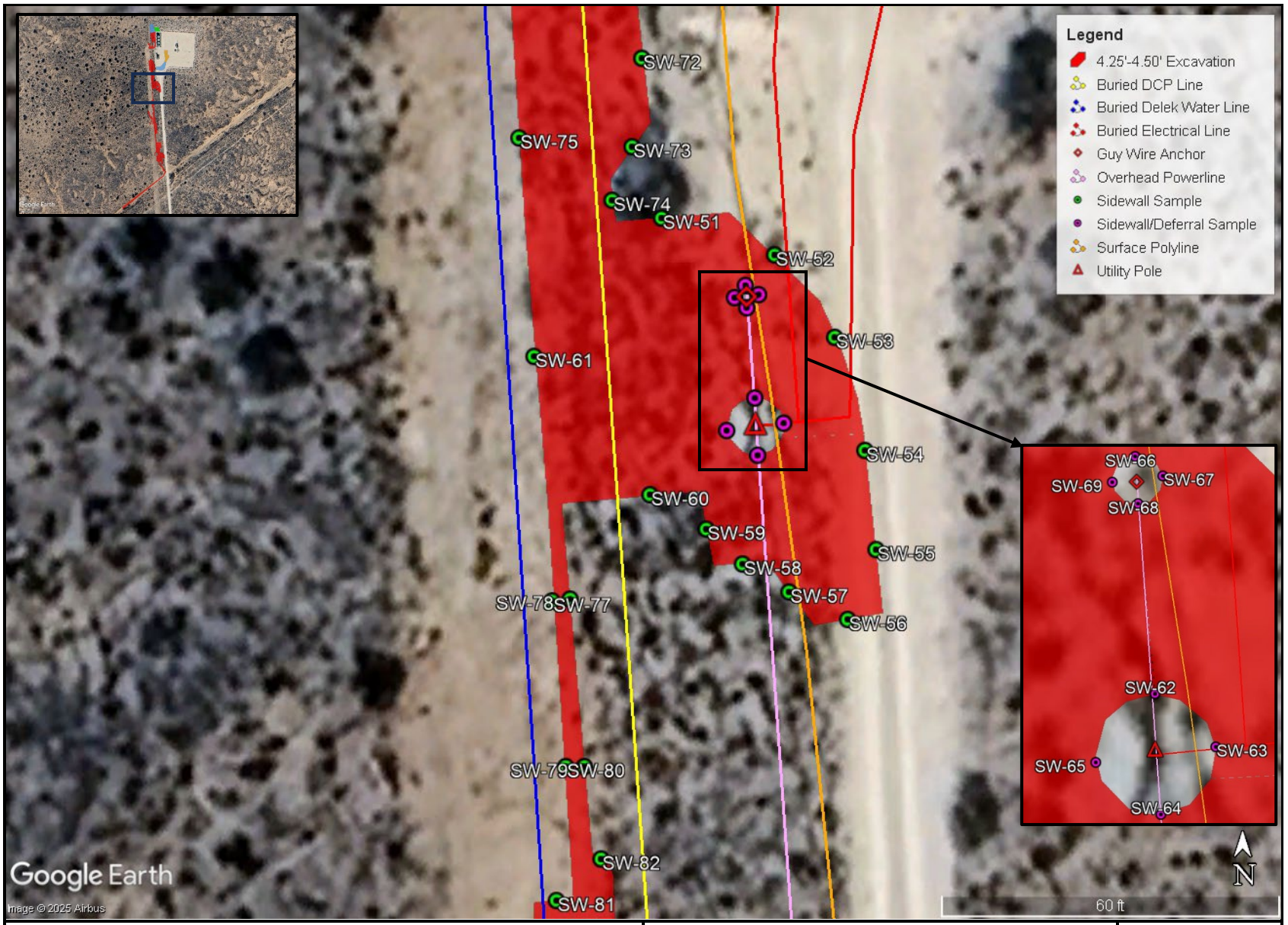
EXCAVATION DEPTH MAP CIMAREX ENERGY CO. MADURO NORTH FEDERAL 4H LEA COUNTY, NEW MEXICO 32.65122°, -103.69252°	CARMONA RESOURCES	FIGURE 4I



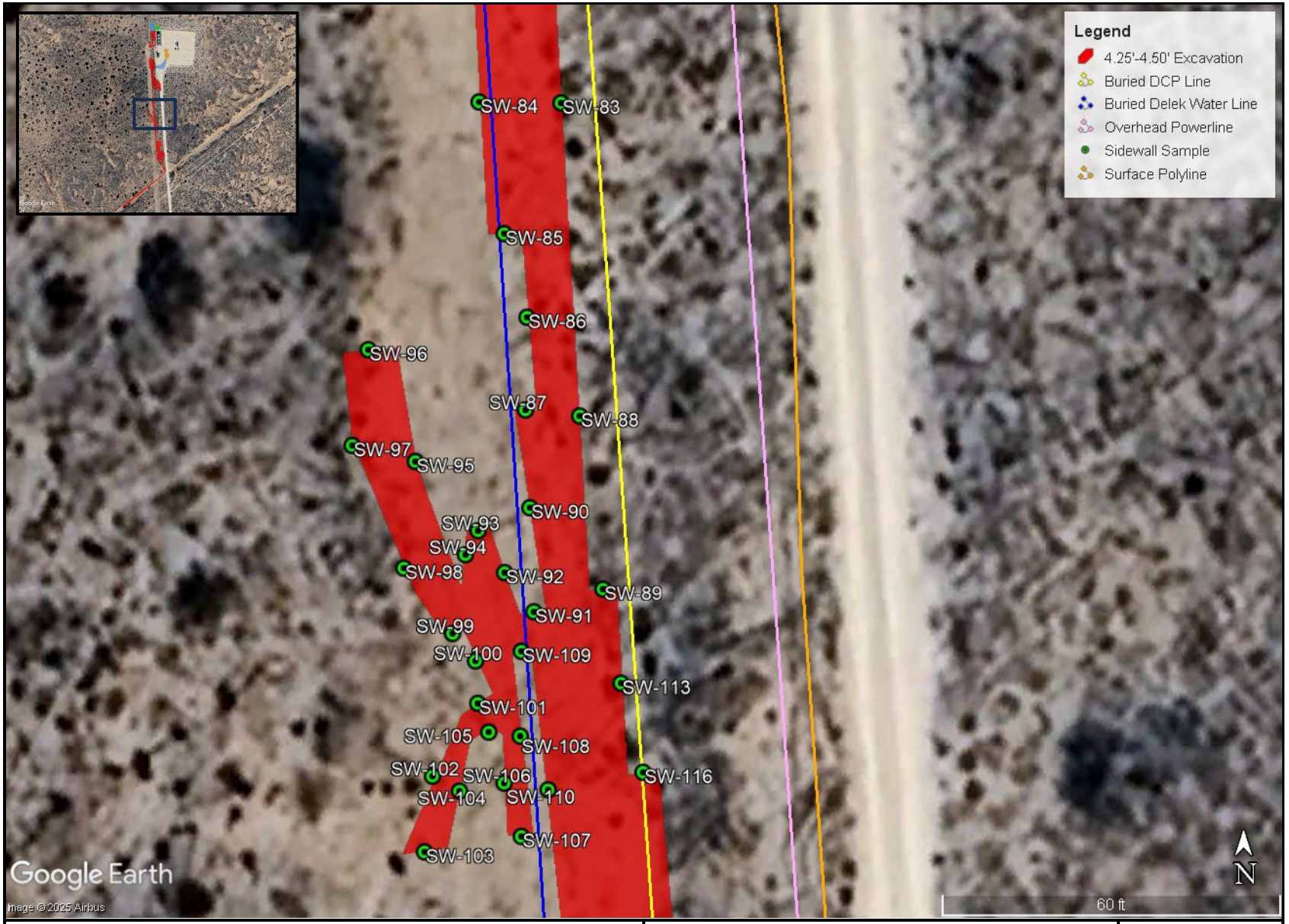
EXCAVATION DEPTH MAP CIMAREX ENERGY CO. MADURO NORTH FEDERAL 4H LEA COUNTY, NEW MEXICO 32.65122°, -103.69252°	CARMONA RESOURCES	FIGURE 4J



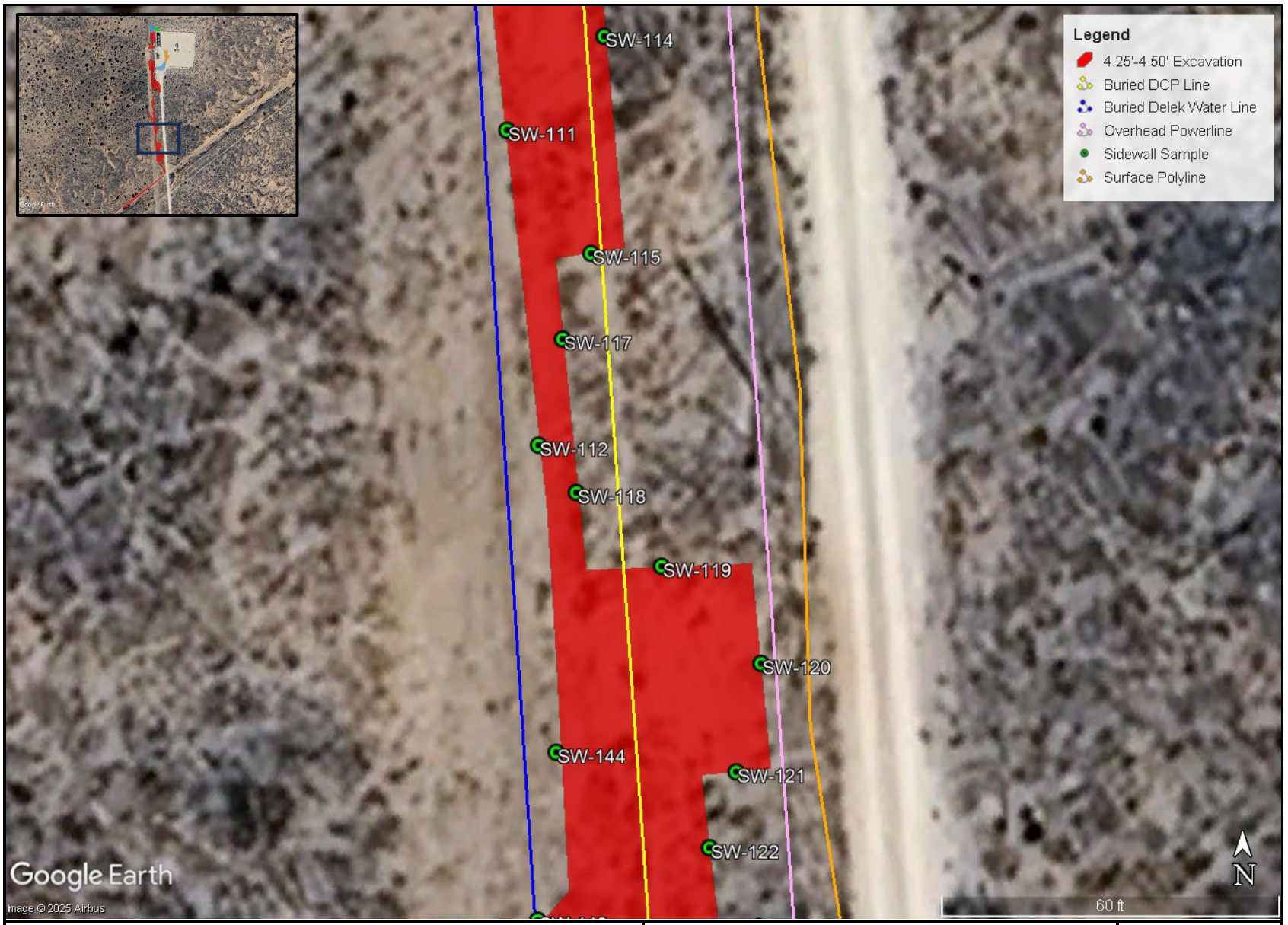
EXCAVATION DEPTH MAP CIMAREX ENERGY CO. MADURO NORTH FEDERAL 4H LEA COUNTY, NEW MEXICO 32.65122°, -103.69252°	CARMONA RESOURCES	FIGURE 4K



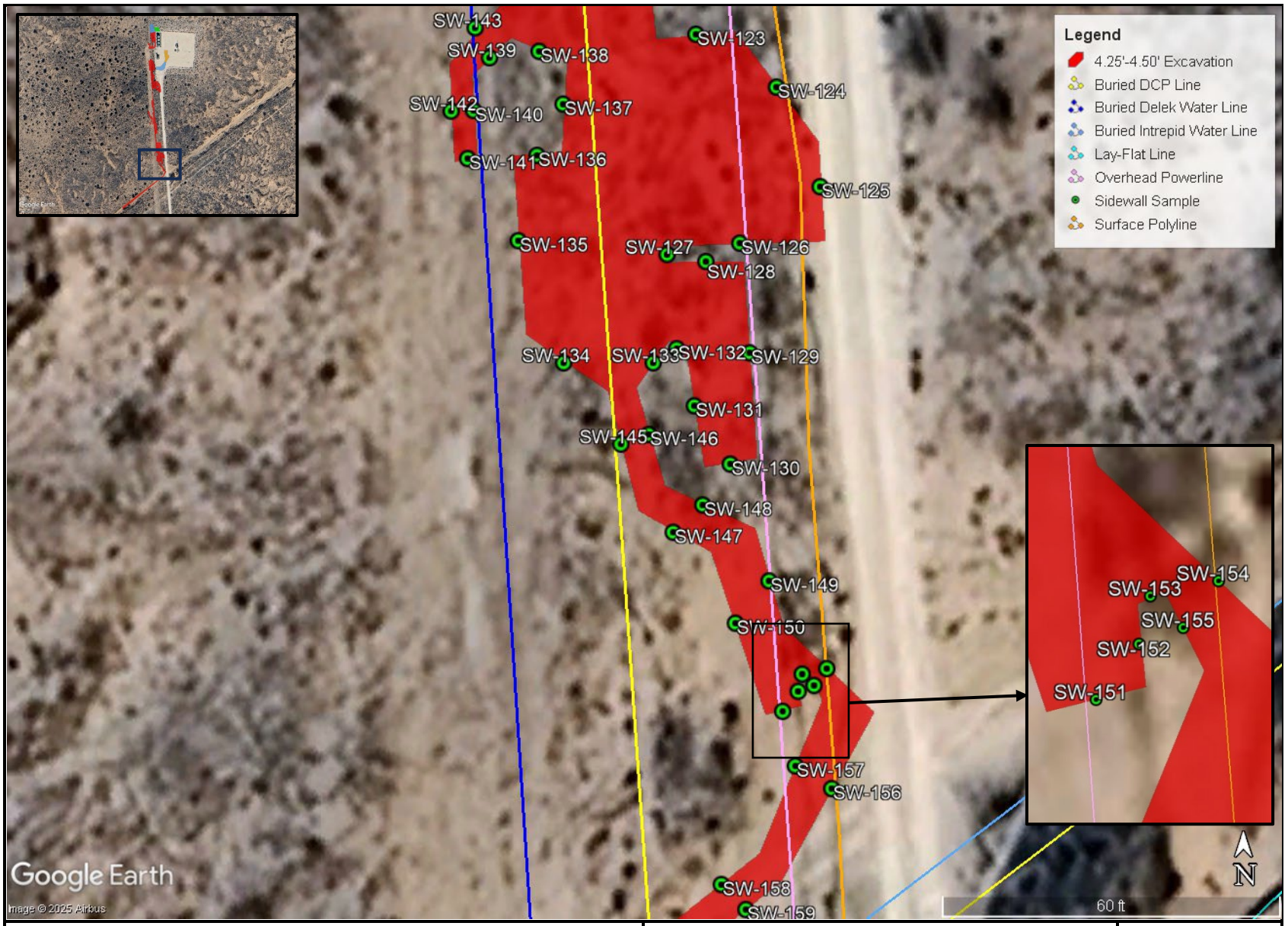
EXCAVATION DEPTH MAP CIMAREX ENERGY CO. MADURO NORTH FEDERAL 4H LEA COUNTY, NEW MEXICO 32.65122°, -103.69252°	CARMONA RESOURCES	FIGURE 4D



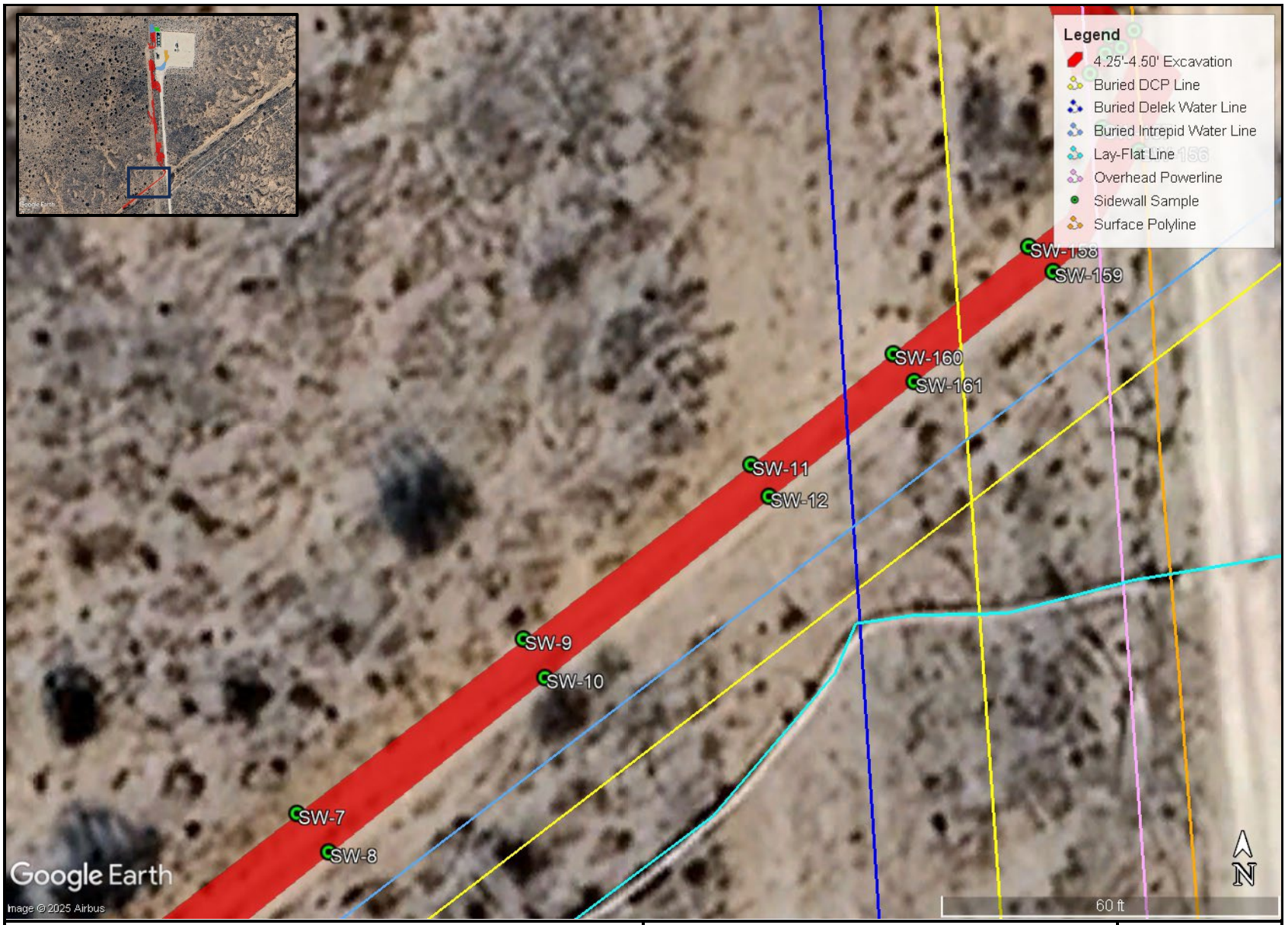
EXCAVATION DEPTH MAP CIMAREX ENERGY CO. MADURO NORTH FEDERAL 4H LEA COUNTY, NEW MEXICO 32.65122°, -103.69252°	CARMONA RESOURCES	FIGURE 4M



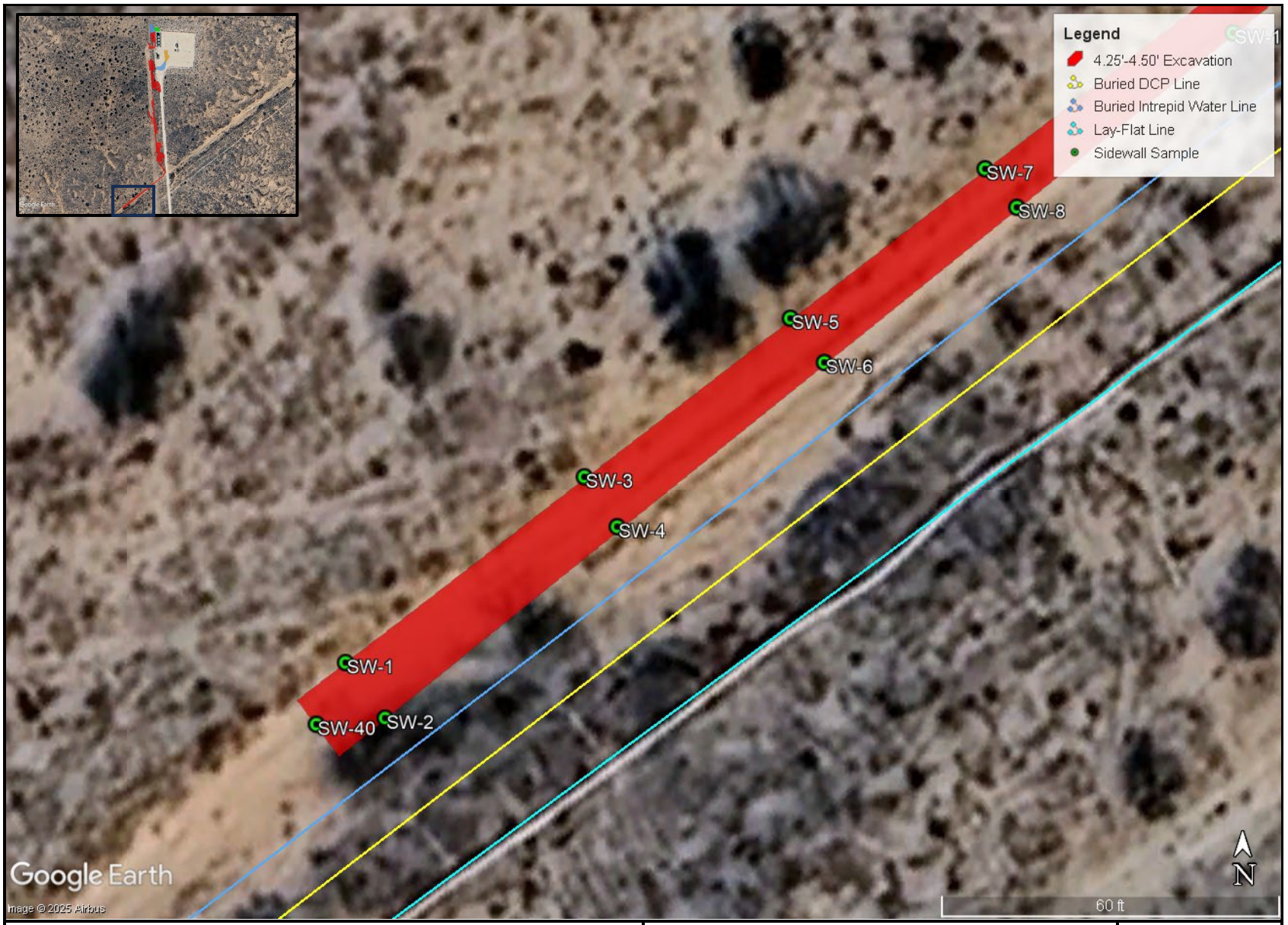
EXCAVATION DEPTH MAP CIMAREX ENERGY CO. MADURO NORTH FEDERAL 4H LEA COUNTY, NEW MEXICO 32.65122°, -103.69252°	CARMONA RESOURCES	FIGURE 4N



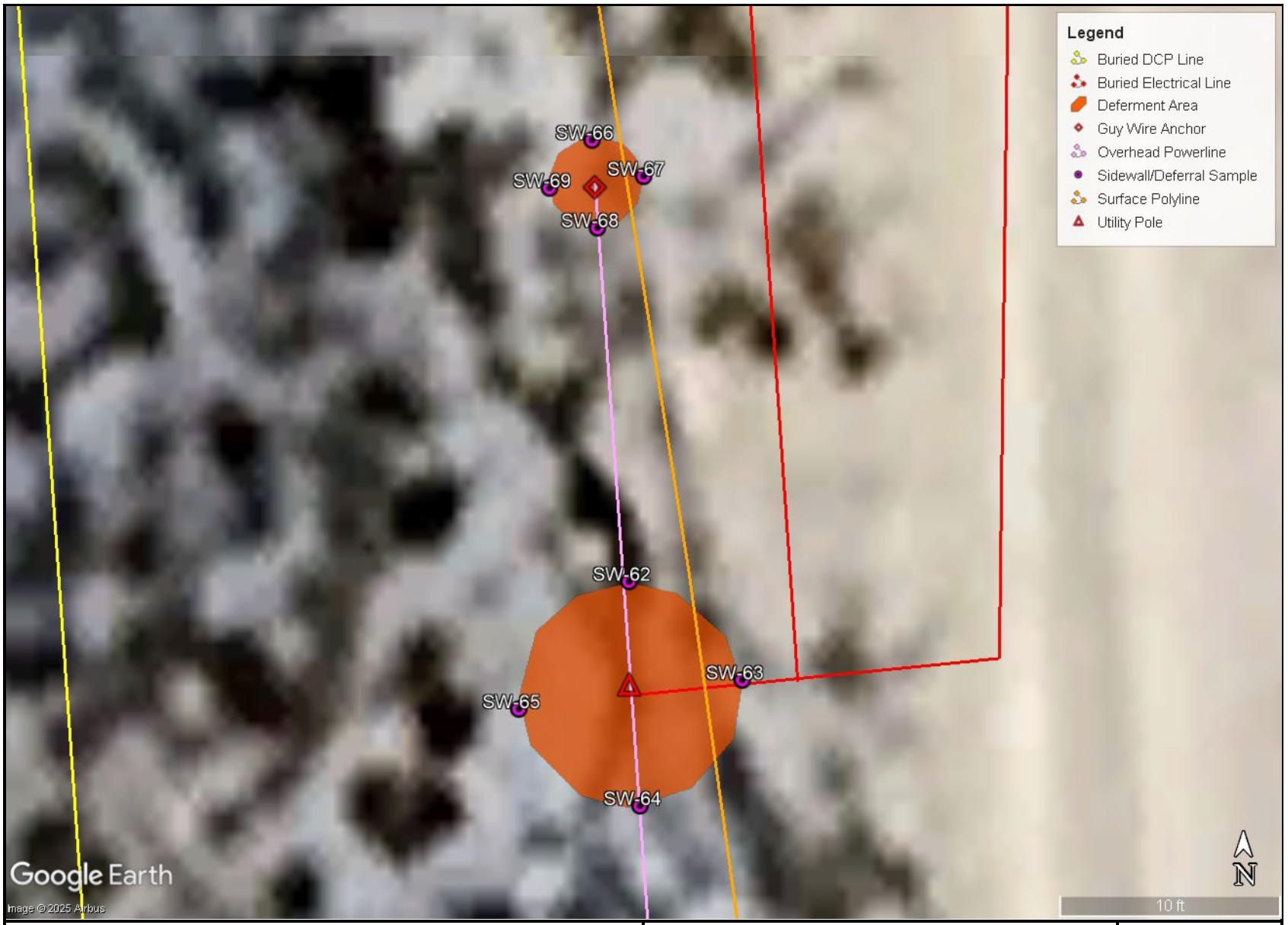
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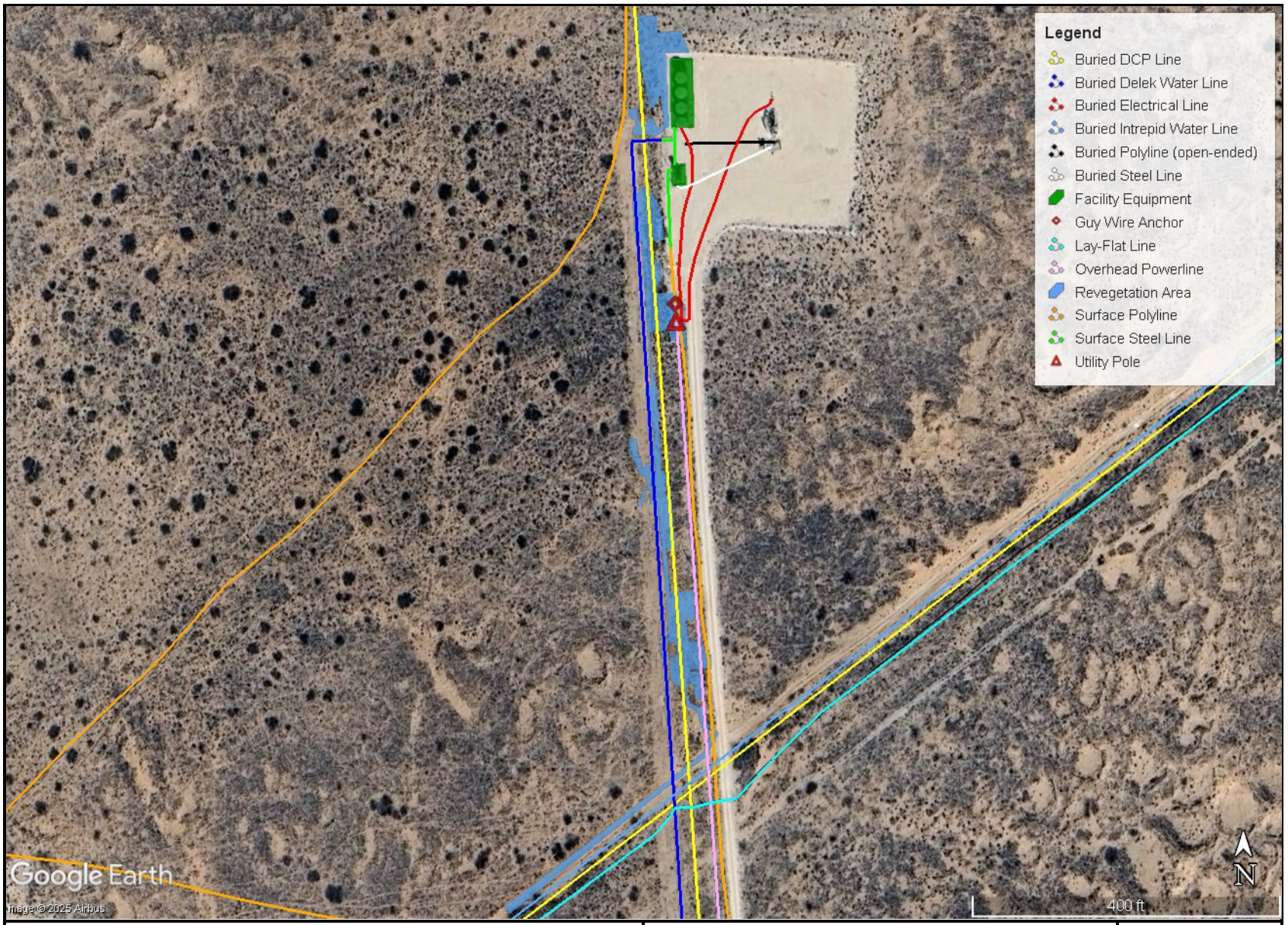
EXCAVATION DEPTH MAP CIMAREX ENERGY CO. MADURO NORTH FEDERAL 4H LEA COUNTY, NEW MEXICO 32.65122°, -103.69252°	CARMONA RESOURCES	FIGURE 4P



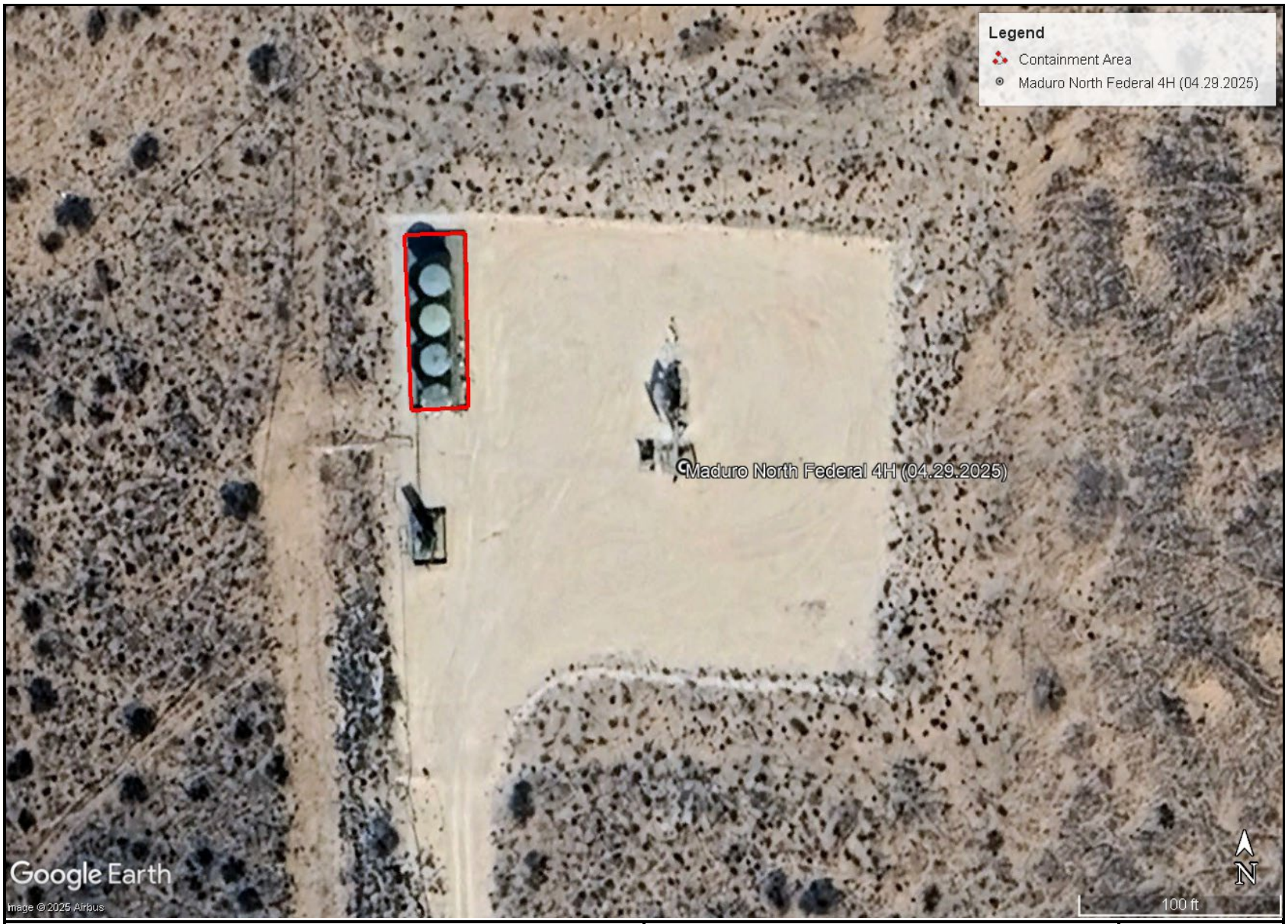
EXCAVATION DEPTH MAP CIMAREX ENERGY CO. MADURO NORTH FEDERAL 4H LEA COUNTY, NEW MEXICO 32.65122°, -103.69252°	CARMONA RESOURCES	FIGURE 4Q



DEFERMENT AREA MAP CIMAREX ENERGY CO. MADURO NORTH FEDERAL 4H LEA COUNTY, NEW MEXICO 32.65122°, -103.69252°	CARMONA RESOURCES	FIGURE 5



REVEGETATION AREA MAP CIMAREX ENERGY CO. MADURO NORTH FEDERAL 4H LEA COUNTY, NEW MEXICO 32.65122°, -103.69252°	CARMONA RESOURCES	FIGURE 6



CONTAINMENT MAP CIMAREX ENERGY CO. MADURO NORTH FEDERAL 4H LEA COUNTY, NEW MEXICO 32.65122°, -103.69252°	CARMONA RESOURCES	FIGURE 7

APPENDIX A

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Table 2
Cimarex Energy Co.
Maduro North Federal 4H
Lea 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	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
CS-2	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
CS-3	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
CS-4	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
CS-5	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
CS-6	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
CS-7	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
CS-8	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-9	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
CS-10	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
CS-11	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
CS-12	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
CS-13	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
CS-14	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
CS-15	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
CS-16	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
CS-17	7/30/2025	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
CS-18	7/30/2025	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-19	7/30/2025	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-20	7/30/2025	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-21	7/30/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-22	7/30/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-23	7/30/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-24	7/30/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-25	7/30/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-26	7/30/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-27	7/30/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-28	7/30/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Regulatory Criteria [A]			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	20,000 mg/kg

[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(CS) - Confirmation Sample

Table 2
Cimarex Energy Co.
Maduro North Federal 4H
Lea 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-29	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-30	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
CS-31	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-32	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-33	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-34	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-35	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-36	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-37	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-38	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
CS-39	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-40	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-41	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-42	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-43	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-44	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
CS-45	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-46	8/6/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,560
CS-47	8/6/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,840
CS-48	8/6/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,480
CS-49	8/6/2025	4.25'	<10.0	10.6	<10.0	10.6	<0.050	<0.050	<0.050	<0.150	<0.300	3,840
CS-50	8/6/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,760
CS-51	8/6/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	**27,600**
	8/12/2025	4.50'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,080
CS-52	8/6/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	**20,000**
	8/12/2025	4.50'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,320
CS-53	8/6/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	18,200
CS-54	8/6/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	**20,400**
	8/12/2025	4.50'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,240
Regulatory Criteria [A]			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	20,000 mg/kg

[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(CS) - Confirmation Sample
Removed

Table 2
Cimarex Energy Co.
Maduro North Federal 4H
Lea 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-55	8/6/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	17,800
CS-56	8/6/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	18,200
CS-57	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,400
CS-58	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	6,480
CS-59	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5,360
CS-60	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	6,640
CS-61	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	8,080
CS-62	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	6,960
CS-63	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	8,080
CS-64	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	15,200
CS-65	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	12,400
CS-66	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	13,800
CS-67	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	10,200
CS-68	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	10,500
CS-69	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	9,460
CS-70	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	7,860
CS-71	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	8,260
CS-72	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5,040
CS-73	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	6,960
CS-74	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	6,000
CS-75	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5,280
CS-76	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5,680
CS-77	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	7,600
CS-78	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	7,040
CS-79	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	6,240
CS-80	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	7,520
CS-81	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5,600
CS-82	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5,600
Regulatory Criteria [A]			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	20,000 mg/kg

[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(CS) - Confirmation Sample

Table 2
Cimarex Energy Co.
Maduro North Federal 4H
Lea 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-83	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	17,800
CS-84	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	18,200
CS-85	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,400
CS-86	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	6,480
CS-87	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5,360
CS-88	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	6,640
CS-89	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	8,080
CS-90	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	6,960
CS-91	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	8,080
CS-92	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	15,200
CS-93	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	12,400
CS-94	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	13,800
CS-95	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	10,200
CS-96	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	10,500
CS-97	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	9,460
CS-98	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	7,860
CS-99	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	8,260
CS-100	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5,040
CS-101	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	6,960
CS-102	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	6,000
CS-103	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5,280
CS-104	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5,680
CS-105	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	7,600
CS-106	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	7,040
CS-107	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	6,240
CS-108	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	7,520
CS-109	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5,600
CS-110	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5,600
Regulatory Criteria [A]			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	20,000 mg/kg

[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(CS) - Confirmation Sample

Table 2
Cimarex Energy Co.
Maduro North Federal 4H
Lea 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-111	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	6,000
CS-112	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5,280
CS-113	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5,680
CS-114	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	7,600
CS-115	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	7,040
CS-116	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	6,240
CS-117	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	7,520
CS-118	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,320
CS-119	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,880
CS-120	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,480
CS-121	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,520
CS-122	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,960
CS-123	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,240
CS-124	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,720
CS-125	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,480
CS-126	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,200
CS-127	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,800
CS-128	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,120
CS-129	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,560
CS-130	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,520
CS-131	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,560
CS-132	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,520
CS-133	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,360
CS-134	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,240
CS-135	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,560
CS-136	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,960
CS-137	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,680
CS-138	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,920
Regulatory Criteria [A]			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	20,000 mg/kg

[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(CS) - Confirmation Sample

Table 2
Cimarex Energy Co.
Maduro North Federal 4H
Lea 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-139	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,120
CS-140	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,840
CS-141	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,160
CS-142	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,280
CS-143	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,640
CS-144	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,240
CS-145	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,080
CS-146	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,800
CS-147	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,200
CS-148	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,560
CS-149	8/22/2025	2.0'	<10.0	47.3	<10.0	47.3	<0.050	<0.050	<0.050	<0.150	<0.300	1,220
CS-150	8/22/2025	2.0'	<10.0	47.3	<10.0	47.3	<0.050	<0.050	<0.050	<0.150	<0.300	1,200
CS-151	8/22/2025	2.0'	<10.0	72.0	17.2	89.2	<0.050	<0.050	<0.050	<0.150	<0.300	1,040
CS-152	8/22/2025	2.0'	<10.0	16.2	<10.0	16.2	<0.050	<0.050	<0.050	<0.150	<0.300	672
CS-153	8/22/2025	2.0'	<10.0	17.6	<10.0	17.6	<0.050	<0.050	<0.050	<0.150	<0.300	656
CS-154	8/22/2025	2.0'	<10.0	99.8	24.5	124.3	<0.050	<0.050	<0.050	<0.150	<0.300	944
CS-155	8/22/2025	2.0'	<10.0	18.1	<10.0	18.1	<0.050	<0.050	<0.050	<0.150	<0.300	240
CS-156	8/22/2025	2.0'	<10.0	17.4	<10.0	17.4	<0.050	<0.050	<0.050	<0.150	<0.300	240
CS-157	8/22/2025	1.5'	<10.0	33.7	<10.0	33.7	<0.050	<0.050	<0.050	<0.150	<0.300	896
CS-158	8/22/2025	1.5'	<10.0	39.7	<10.0	39.7	<0.050	<0.050	<0.050	<0.150	<0.300	800
CS-159	8/22/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
CS-160	8/22/2025	1.5'	<10.0	19.0	<10.0	19.0	<0.050	<0.050	<0.050	<0.150	<0.300	704
CS-161	8/22/2025	1.5'	<10.0	10.9	<10.0	10.9	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
Regulatory Criteria [A]			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	20,000 mg/kg

[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(CS) - Confirmation Sample

Table 2
Cimarex Energy Co.
Maduro North Federal 4H
Lea 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						
SW-1	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-2	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-3	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-4	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-5	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-6	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-7	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-8	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-9	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
SW-10	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
SW-11	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
SW-12	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
SW-13	7/30/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-14	7/30/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-15	7/30/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-16	7/30/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-17	7/30/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-18	7/30/2025	1.5'-4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-19	7/30/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-20	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-21	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-22	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-23	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-24	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-25	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-26	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-27	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-28	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Regulatory Criteria [A]						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(SW) - Sidewall Sample

Table 2
Cimarex Energy Co.
Maduro North Federal 4H
Lea 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						
SW-29	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-30	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-31	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-32	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
SW-33	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
SW-34	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
SW-35	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
SW-36	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
SW-37	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
SW-38	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
SW39	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
SW-40	7/30/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
SW-41	8/5/2025	0.5'-1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-42	8/6/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-43	8/6/2025	4.25'	<10.0	11.2	11.4	22.6	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-44	8/6/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-45	8/6/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-46	8/6/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-47	8/6/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-48	8/6/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-49	8/6/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-50	8/6/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-51	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	**608**
	8/13/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-52	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	**688**
	8/13/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-53	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	**624**
	8/13/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Regulatory Criteria [A]						**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**

[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(SW) - Sidewall Sample
Removed

Table 2
Cimarex Energy Co.
Maduro North Federal 4H
Lea 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						
SW-54	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	576
SW-55	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	**608**
	8/13/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-56	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	**624**
	8/13/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-57	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	**688**
	8/13/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-58	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	**720**
	8/13/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-59	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	576
SW-60	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	**624**
	8/13/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-61	8/8/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	**656**
	8/13/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-62	8/8/2025	4.25'	**103**	**2,520**	**386**	**3,009**	<0.050	<0.050	<0.050	0.742	0.742	**4,640**
SW-63	8/8/2025	4.25'	**114**	**2,450**	**391**	**2,955**	<0.050	<0.050	<0.050	0.642	0.642	**5,680**
SW-64	8/8/2025	4.25'	**149**	**2,960**	**488**	**3,597**	<0.050	<0.050	<0.050	0.859	0.859	**5,280**
SW-65	8/8/2025	4.25'	**246**	**4,180**	**637**	**5,063**	<0.050	<0.050	<0.050	1.21	1.21	**5,200**
SW-66	8/8/2025	4.25'	**240**	**3,550**	**568**	**4,358**	<0.050	<0.050	<0.050	2.58	2.58	**4,080**
SW-67	8/8/2025	4.25'	**227**	**3,650**	**564**	**4,441**	<0.050	<0.050	<0.050	2.16	2.16	**3,840**
SW-68	8/8/2025	4.25'	**228**	**4,360**	**619**	**5,207**	<0.050	<0.050	<0.050	1.34	1.34	**4,560**
SW-69	8/8/2025	4.25'	90.1	**2,000**	**313**	**2,403**	<0.050	<0.050	<0.050	0.567	0.567	**5,440**
SW-70	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-71	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-72	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-73	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-74	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-75	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-76	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
Regulatory Criteria [A]						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(SW) - Sidewall Sample
Removed
Deferrment Area

Table 2
Cimarex Energy Co.
Maduro North Federal 4H
Lea 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						
SW-77	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-78	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-79	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-80	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-81	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-82	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-83	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-84	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-85	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-86	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-87	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-88	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-89	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-90	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-91	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-92	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	**656**
	8/22/2025	4.25'	<10.0	19.6	<10.0	19.6	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-93	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	**656**
	8/22/2025	4.25'	<10.0	18.1	<10.0	18.1	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-94	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-95	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	**624**
	8/22/2025	4.25'	<10.0	19.3	<10.0	19.3	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-96	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-97	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-98	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-99	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-100	8/12/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-101	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
Regulatory Criteria [A]						**100 mg/kg**	**10 mg/kg**				**50 mg/kg**	**600 mg/kg**

[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(SW) - Sidewall Sample
Removed

Table 2
Cimarex Energy Co.
Maduro North Federal 4H
Lea 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						
SW-102	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112.0
SW-103	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112.0
SW-104	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-105	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-106	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-107	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-108	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-109	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-110	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-111	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-112	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-113	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-114	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-115	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112.0
SW-116	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-117	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112.0
SW-118	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-119	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-120	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
SW-121	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-122	8/20/2025	4.25'	<10.0	10.2	<10.0	10.2	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-123	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-124	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-125	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-126	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-127	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-128	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-129	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Regulatory Criteria [A]						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(SW) - Sidewall Sample

Table 2
Cimarex Energy Co.
Maduro North Federal 4H
Lea 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						
SW-130	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-131	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-132	8/20/2025	4.25'	<10.0	14.2	<10.0	14.2	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-133	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-134	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-135	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-136	8/20/2025	4.25'	<10.0	10.3	<10.0	10.3	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-137	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-138	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-139	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-140	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-141	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-142	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-143	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-144	8/20/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-145	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-146	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-147	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-148	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
SW-149	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
SW-150	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
SW-151	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SW-152	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-153	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-154	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-155	8/21/2025	4.25'	<10.0	12.7	<10.0	12.7	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-156	8/21/2025	4.25'	<10.0	35.7	<10.0	35.7	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-157	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Regulatory Criteria [A]						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(SW) - Sidewall Sample

Table 2
Cimarex Energy Co.
Maduro North Federal 4H
Lea 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						
SW-158	8/21/2025	4.25'	<10.0	22.2	<10.0	22.2	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-159	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-160	8/21/2025	4.25'	<10.0	15.9	<10.0	15.9	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-161	8/21/2025	4.25'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-162	8/22/2025	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-163	8/22/2025	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-164	8/22/2025	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-165	8/22/2025	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
SW-166	8/22/2025	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
SW-167	8/22/2025	2.0'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	224
SW-168	8/22/2025	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
SW-169	8/22/2025	1.5"	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
SW-170	8/22/2025	1.5"	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
SW-171	8/22/2025	1.5"	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	192
SW-172	8/22/2025	1.5"	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-173	8/22/2025	1.5"	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
Backfill	8/5/2025	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
Regulatory Criteria [A]						100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg

[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
(SW) - Sidewall Sample

APPENDIX B

CARMONA RESOURCES



PHOTOGRAPHIC LOG

Cimarex Energy Co.

Photograph No. 1

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View Northeast, area of CS-17 through CS-20.



Photograph No. 2

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View Northwest, area of CS-21 through CS-28.



Photograph No. 3

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View Southwest, area of CS-29 through CS-38.



CARMONA RESOURCES

PHOTOGRAPHIC LOG

Cimarex Energy Co.

Photograph No. 4

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View Southwest, area of CS-39 through CS-45.



Photograph No. 5

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View North, area of CS-46 through CS-56.



Photograph No. 6

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View Northwest, area of CS-73 through CS-82.



CARMONA RESOURCES

PHOTOGRAPHIC LOG

Cimarex Energy Co.

Photograph No. 7

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View Northwest, area of CS-58 through CS-72 and deferral samples SW-62 through SW-69.



Photograph No. 8

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View South, area of CS-83 through CS-90.

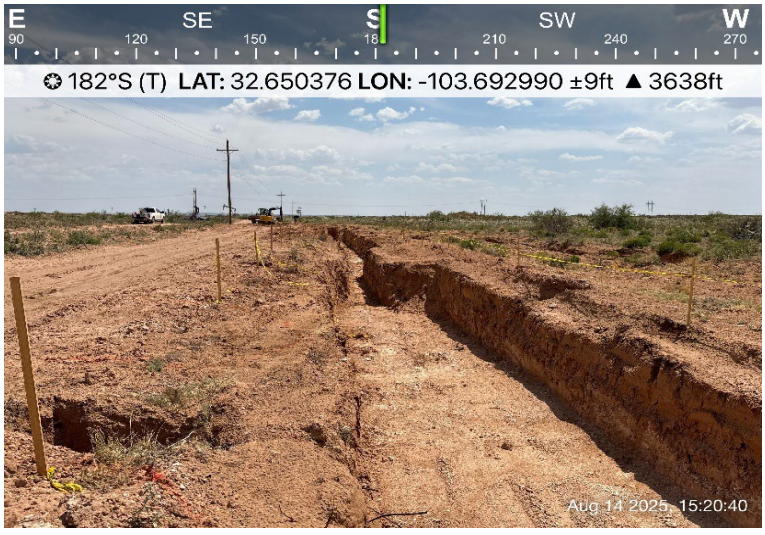


Photograph No. 9

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View South, area of CS-90 through CS-115.



CARMONA RESOURCES

PHOTOGRAPHIC LOG

Cimarex Energy Co.

Photograph No. 10

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View Southwest, area of CS-116 through CS-118 and CS-121 through CS-128.



Photograph No. 11

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View Southwest, area of CS-129 through CS-130 and CS-134 through CS-136.

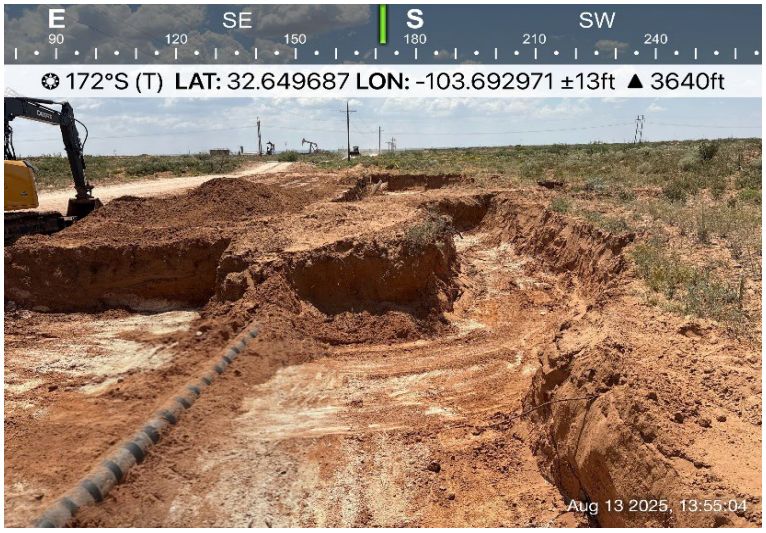


Photograph No. 12

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View South, area of CS-119 through CS-136.



CARMONA RESOURCES

PHOTOGRAPHIC LOG

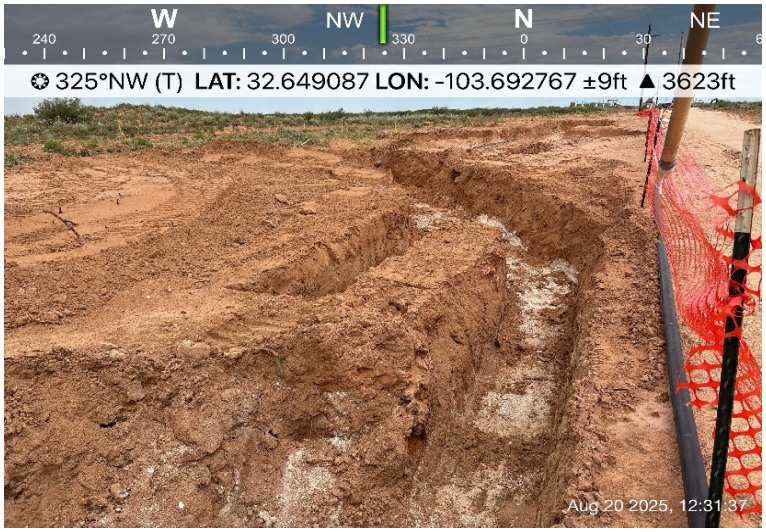
Cimarex Energy Co.

Photograph No. 13

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View Northwest, area of CS-137 through CS-145.



Photograph No. 14

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View West, area of CS-146 through CS-148 and CS-1 through CS-16.



Photograph No. 15

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View Northeast, area of CS-149 through CS-156.



CARMONA RESOURCES

PHOTOGRAPHIC LOG

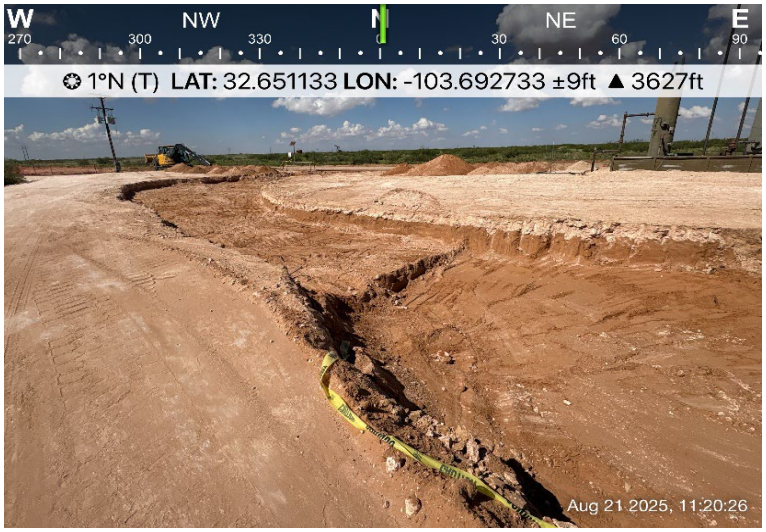
Cimarex Energy Co.

Photograph No. 16

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View North, area of CS-156 through CS-161.

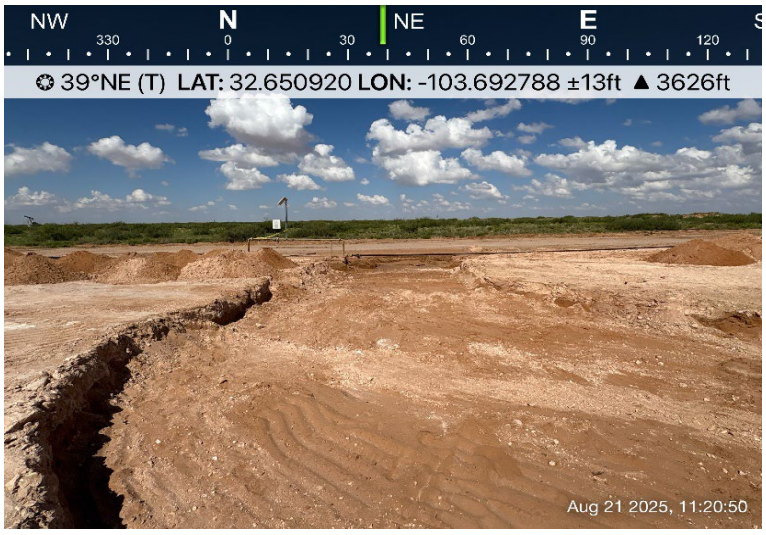


Photograph No. 17

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View Northeast, area of CS-159 through CS-161.

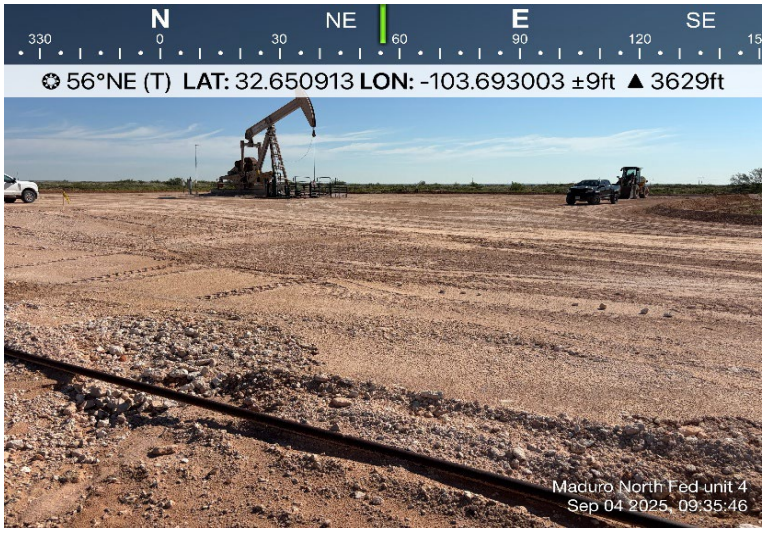


Photograph No. 18

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View Northeast of backfilled area.



CARMONA RESOURCES

PHOTOGRAPHIC LOG

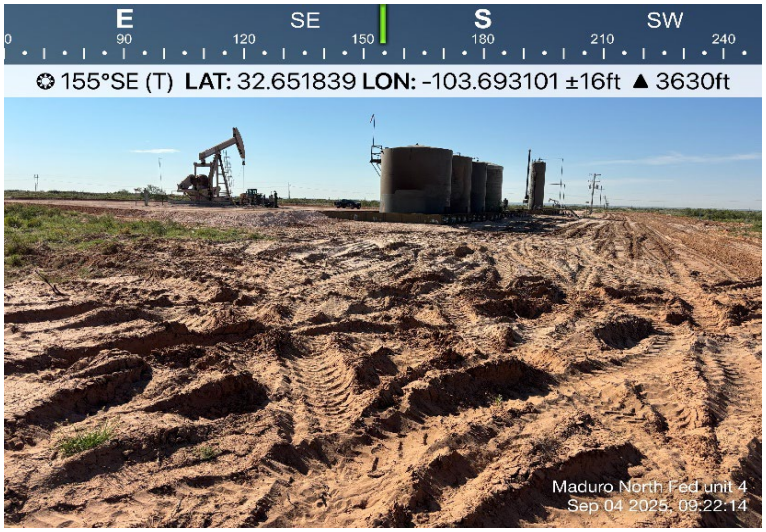
Cimarex Energy Co.

Photograph No. 19

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View Southeast of backfilled area.



Photograph No. 20

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View North of backfilled area.

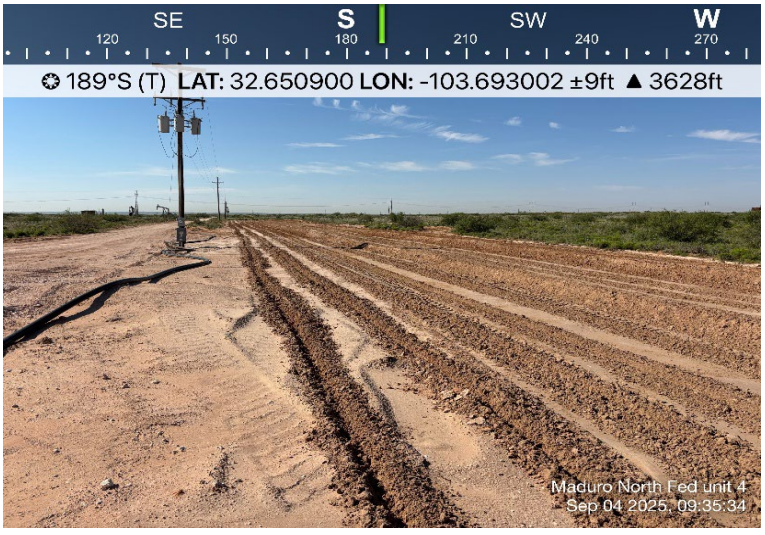


Photograph No. 21

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View South of backfilled area.



CARMONA RESOURCES

PHOTOGRAPHIC LOG

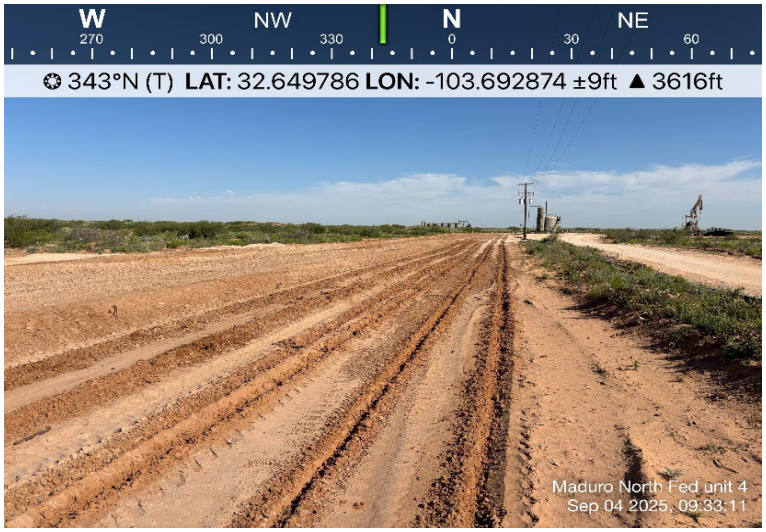
Cimarex Energy Co.

Photograph No. 22

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View North of backfilled area.



Photograph No. 23

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View Northwest of backfilled area.



Photograph No. 24

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View Northeast of backfilled area.



CARMONA RESOURCES

PHOTOGRAPHIC LOG

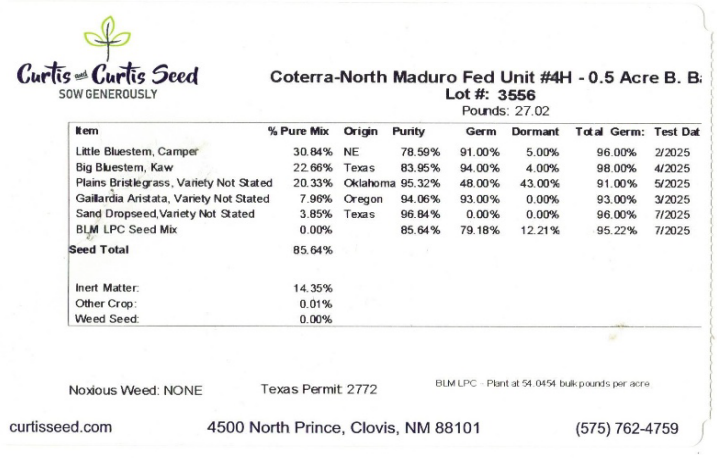
Cimarex Energy Co.

Photograph No. 25

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View North of backfilled area.


Curtis and Curtis Seed
SOW GENEROUSLY

Coterra-North Maduro Fed Unit #4H - 0.5 Acre B. B.
Lot #: 3556
Pounds: 27.02

Item	% Pure Mix	Origin	Purity	Germ	Dormant	Total Germ:	Test Dat
Little Bluestem, Camper	30.84%	NE	78.59%	91.00%	5.00%	96.00%	2/2025
Big Bluestem, Kaw	22.66%	Texas	83.95%	94.00%	4.00%	98.00%	4/2025
Plains Bristlegrass, Variety Not Stated	20.33%	Oklahoma	95.32%	48.00%	43.00%	91.00%	5/2025
Gaillardia Aristata, Variety Not Stated	7.96%	Oregon	94.06%	93.00%	0.00%	93.00%	3/2025
Sand Dropseed,Variety Not Stated	3.85%	Texas	96.84%	0.00%	0.00%	96.00%	7/2025
BLM LPC Seed Mix	0.00%		85.64%	79.18%	12.21%	95.22%	7/2025
Seed Total	85.64%						
Inert Matter:	14.35%						
Other Crop:	0.01%						
Weed Seed:	0.00%						

Noxious Weed: NONE Texas Permit 2772 BLM LPC - Plant at 54.0454 bulk pounds per acre

curtisseed.com 4500 North Prince, Clovis, NM 88101 (575) 762-4759

Photograph No. 26

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View Southwest of reseeding via tractor seed broadcaster.



Photograph No. 27

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View South of reseeding via tractor seed broadcaster.



CARMONA RESOURCES

PHOTOGRAPHIC LOG

Cimarex Energy Co.

Photograph No. 28

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View West, Liner Inspection. Photos show contianment holding water from evening showers that occurred in Southeast New Mexico on 09.23.2025.



Photograph No. 29

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View North, Liner Inspection. Photos show contianment holding water from evening showers that occurred in Southeast New Mexico on 09.23.2025.

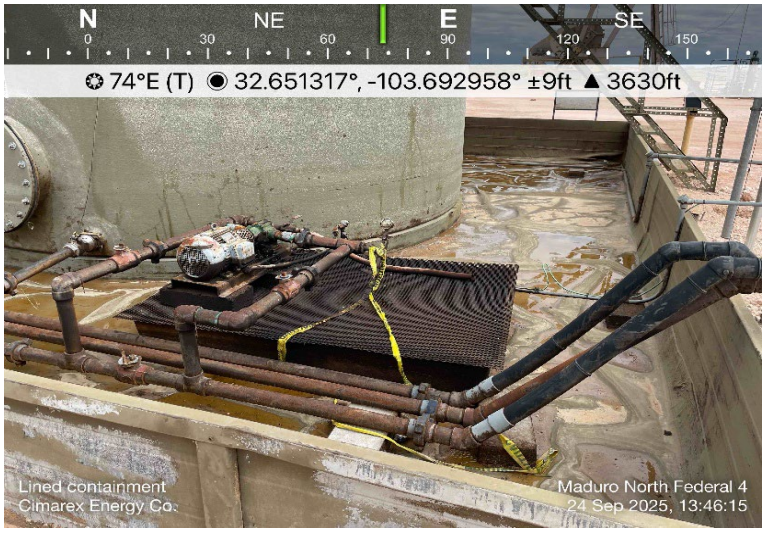


Photograph No. 30

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View East, Liner Inspection. Photos show contianment holding water from evening showers that occurred in Southeast New Mexico on 09.23.2025.



CARMONA RESOURCES

PHOTOGRAPHIC LOG

Cimarex Energy Co.

Photograph No. 31

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View Southeast, Liner Inspection. Photos show contianment holding water from evening showers that occurred in Southeast New Mexico on 09.23.2025.



Photograph No. 32

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View Southwest, Liner Inspection. Photos show contianment holding water from evening showers that occurred in Southeast New Mexico on 09.23.2025.



Photograph No. 30

Facility: Maduro North Federal 4H (04.29.2025)

County: Lea County, New Mexico

Description:
View South, Liner Inspection. Photos show contianment holding water from evening showers that occurred in Southeast New Mexico on 09.23.2025.



CARMONA RESOURCES

APPENDIX C

CARMONA RESOURCES

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 457278

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 457278
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source *Please answer all the questions in this group.*	
Site Name	Maduro North Federal 4H
Date Release Discovered	04/29/2025
Surface Owner	Federal

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	Cause: Human Error | Tank (Any) | Crude Oil | Released: 40 BBL | Recovered: 40 BBL | Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Human Error | Tank (Any) | Produced Water | Released: 920 BBL | Recovered: 835 BBL | Lost: 85 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)	We had a reportable release at the North Maduro Federal 4H due to an offset frac communicating with the well. Fluid flowed to the facility, resulting in production tanks overrunning into the lined containment. Once the containment filled, the fluid over-ran the walls and flowed onto the well pad, pasture and along a pipeline ROW. This incident resulted in an estimated release of 960 barrels fluid into the containment, well pad and pasture. Vac trucks were able to recover all fluids from the containment with an additional 40 barrels oil recovered from the pasture and ROW. The impacted soils will be assessed and remediated in the coming weeks.

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Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 457278
	Action Type: [NOTIFY] Notification Of Release (NOR)

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	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**
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 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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Santa Fe, NM 87505

ACKNOWLEDGMENTS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 457278
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
☑	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
☑	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
☑	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.
☑	I acknowledge the fact that 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.
☑	I acknowledge the fact that, 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.

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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

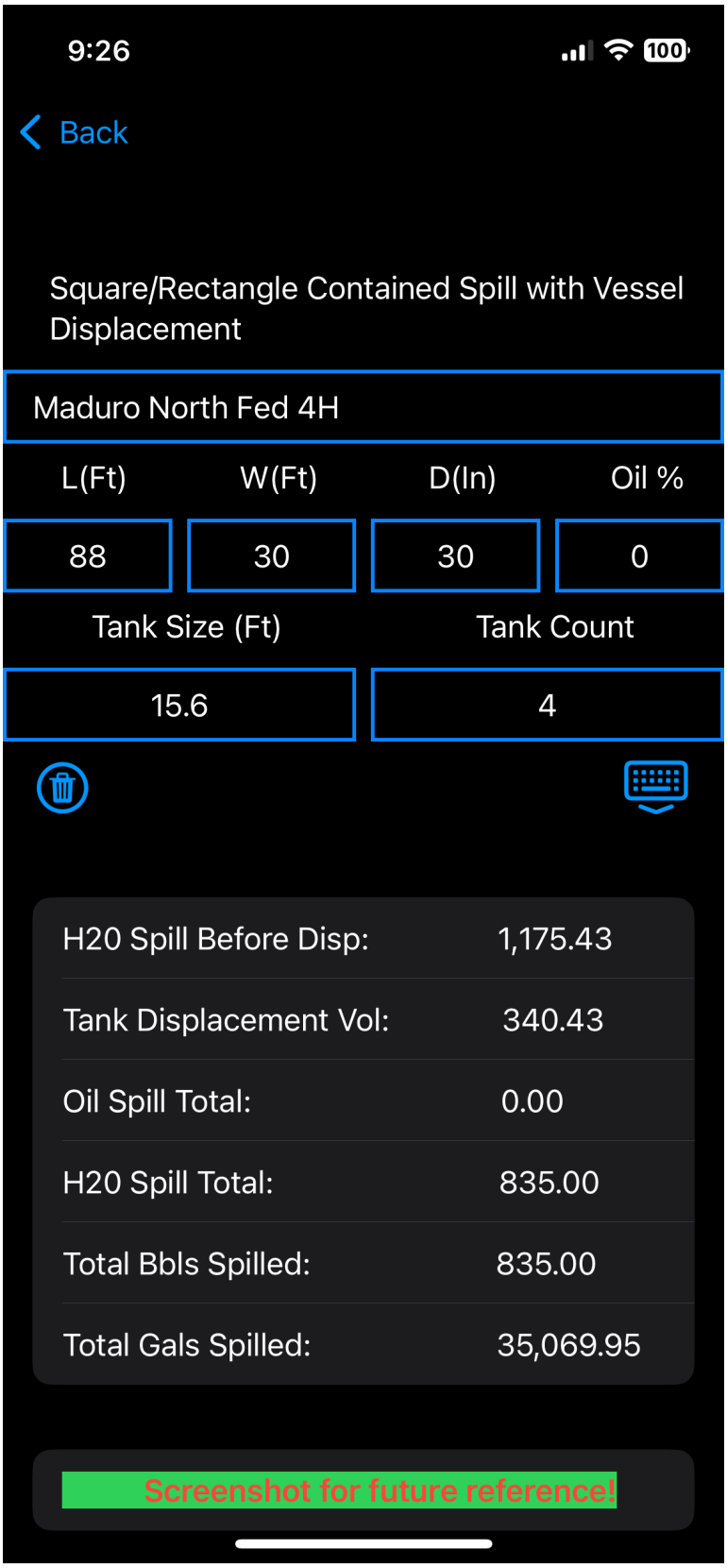
Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 457278
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
lluig	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	4/30/2025

CIMAREX ENERGY
MADURO NORTH FED 4H
LEA, NM

IN CONTAINMENT CALCULATION



****** LIQUID SPILLS - VOLUME CALCULATIONS ******

Location of spill: Maduro North Fed 4H - Well Pad & ROW **Date of Spill:** 4/29/2025

If the leak/spill is associated with production equipment, i.e. - wellhead, stuffing box,
flowline, tank battery, production vessel, transfer pump, or storage tank place an "X" here: ☐

Input Data:

	OIL:	WATER:
If spill volumes from measurement, i.e. metering, tank volumes, etc.are known enter the volumes here:	0.0000 BBL	0.0000 BBL

If "known" spill volumes are given, input data for the following "Area Calculations" is optional. The above will override the calculated volumes.

Total Area Calculations

Total Surface Area	width		length		wet soil depth	oil (%)
Rectangle Area #1	6,875 ft	X	1 ft	X	1 in	32%
Rectangle Area #2	8,979 ft	X	1 ft	X	4 in	32%
Rectangle Area #3	15,210 ft	X	1 ft	X	4 in	32%
Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%

Standing Liquid Calculations

Standing Liquid Area	width		length		liquid depth	oil (%)
Rectangle Area #1	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #2	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%

okay

Production Data NOT Required

Average Daily Production: Oil 0 BBL Water 0 BBL

Did leak occur before the separator?: ☐ YES ☐ N/A *(place an "X")*

Amount of Free Liquid Recovered: 0 BBL okay

Percentage of Oil in Free Liquid Recovered: 0% (percentage)

Liquid holding factor *: 0.08 gal per gal

Use the following when the spill wets the grains of the soil.
* sand = .08 gallon liquid per gallon volume of soil.
* gravelly (caliche) loam = .14 gallon liquid per gallon volume of soil.
* sandy clay loam soil = .14 gallon liquid per gallon volume of soil.
* clay loam = .16 gallon liquid per gallon volume of soil.

Use the following when the liquid completely fills the pore space of the soil:
Occures when the spill soaked soil is contained by barriers, natural (or not).
* gravelly (caliche) loam = .25 gallon liquid per gallon volume of soil.
* sandy loam = .5 gallon liquid per gallon volume of soil.

Saturated Soil Volume Calculations:

		H2O	OIL
Total Solid/Liquid Volume:	31,064 sq. ft.	6,000 cu. ft.	2,824 cu. ft.

Free Liquid Volume Calculations:

		H2O	OIL
Total Free Liquid Volume:	sq. ft.	.000 cu. ft.	.000 cu. ft.

Estimated Volumes Spilled

	H2O	OIL
Liquid in Soil:	85.5 BBL	40.2 BBL
Free Liquid:	0.0 BBL	0.0 BBL
Totals:	85.487 BBL	40.229 BBL
Total Liquid Spill Liquid:	85.487 BBL	40.229 BBL

Estimated Production Volumes Lost

	H2O	OIL
Estimated Production Spilled:	0.000000 BBL	0.000000 BBL

Estimated Surface Damage

Surface Area: 31,064 sq. ft.
Surface Area: .7131 acre

Recovered Volumes

Estimated oil recovered: 0.0 BBL check - okay
Estimated water recovered: 0.0 BBL check - okay

Estimated Weights, and Volumes

Saturated Soil =	988,254 lbs	8,824 cu.ft.	327 cu.yds.
Total Liquid =	126 BBL	5,280.10 gallon	43,930 lbs

CIMAREX ENERGY
TAOS FEDERAL 5H
EDDY, NM





CIMAREX ENERGY
TAOS FEDERAL 5H
EDDY, NM





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

QUESTIONS

Action 457381

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 457381
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2512052637**
Incident Name	**NAPP2512052637 MADURO NORTH FEDERAL 4H @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Received**
Incident Facility	**[fAPP2202546495] MADURO NORTH FED 4H**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Maduro North Federal 4H
Date Release Discovered	04/29/2025
Surface Owner	Federal

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	Cause: Human Error | Tank (Any) | Crude Oil | Released: 40 BBL | Recovered: 40 BBL | Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Human Error | Tank (Any) | Produced Water | Released: 920 BBL | Recovered: 835 BBL | Lost: 85 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)	We had a reportable release at the North Maduro Federal 4H due to an offset frac communicating with the well. Fluid flowed to the facility, resulting in production tanks overrunning into the lined containment. Once the containment filled, the fluid over-ran the walls and flowed onto the well pad, pasture and along a pipeline ROW. This incident resulted in an estimated release of 960 barrels fluid into the containment, well pad and pasture. Vac trucks were able to recover all fluids from the containment with an additional 40 barrels oil recovered from the pasture and ROW. The impacted soils will be assessed and remediated in the coming weeks.

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QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 457381
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**

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: Laci Luig Title: ES&H Specialist Email: DL_PermianEnvironmental@coterra.com Date: 04/30/2025

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QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 457381
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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)	*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.	

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CONDITIONS

Action 457381

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 457381
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	5/1/2025

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QUESTIONS

Action 488308

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 488308
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2512052637**
Incident Name	**NAPP2512052637 MADURO NORTH FEDERAL 4H @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAPP2202546495] MADURO NORTH FED 4H**

Location of Release Source	
Site Name	**Maduro North Federal 4H**
Date Release Discovered	**04/29/2025**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	20,000
What is the estimated number of samples that will be gathered	150
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/30/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources (432-813-8988)
Please provide any information necessary for navigation to sampling site	32.651220, -103.692520

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CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 488308
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
athielke	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.	7/24/2025
athielke	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	7/24/2025

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QUESTIONS

Action 488311

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 488311
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2512052637**
Incident Name	**NAPP2512052637 MADURO NORTH FEDERAL 4H @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAPP2202546495] MADURO NORTH FED 4H**

Location of Release Source	
Site Name	**Maduro North Federal 4H**
Date Release Discovered	**04/29/2025**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	20,000
What is the estimated number of samples that will be gathered	150
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/05/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources (432-813-8988)
Please provide any information necessary for navigation to sampling site	32.651220, -103.692520

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CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 488311
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
athielke	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.	7/24/2025
athielke	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	7/24/2025

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QUESTIONS

Action 488312

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 488312
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2512052637**
Incident Name	**NAPP2512052637 MADURO NORTH FEDERAL 4H @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAPP2202546495] MADURO NORTH FED 4H**

Location of Release Source	
Site Name	**Maduro North Federal 4H**
Date Release Discovered	**04/29/2025**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	20,000
What is the estimated number of samples that will be gathered	150
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/06/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources (432-813-8988)
Please provide any information necessary for navigation to sampling site	32.651220, -103.692520

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CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 488312
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
athielke	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.	7/24/2025
athielke	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	7/24/2025

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QUESTIONS

Action 492479

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 492479
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2512052637**
Incident Name	**NAPP2512052637 MADURO NORTH FEDERAL 4H @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAPP2202546495] MADURO NORTH FED 4H**

Location of Release Source	
Site Name	**Maduro North Federal 4H**
Date Release Discovered	**04/29/2025**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	20,000
What is the estimated number of samples that will be gathered	150
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/08/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources (432-813-8988)
Please provide any information necessary for navigation to sampling site	32.651220, -103.692520

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CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 492479
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
athielke	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.	8/6/2025
athielke	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	8/6/2025

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QUESTIONS

Action 492487

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 492487
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2512052637**
Incident Name	**NAPP2512052637 MADURO NORTH FEDERAL 4H @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAPP2202546495] MADURO NORTH FED 4H**

Location of Release Source	
Site Name	**Maduro North Federal 4H**
Date Release Discovered	**04/29/2025**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	20,000
What is the estimated number of samples that will be gathered	150
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/12/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources (432-813-8988)
Please provide any information necessary for navigation to sampling site	32.651220, -103.692520

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CONDITIONS

Action 492487

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 492487
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
athielke	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.	8/6/2025
athielke	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	8/6/2025

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QUESTIONS

Action 492494

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 492494
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2512052637**
Incident Name	**NAPP2512052637 MADURO NORTH FEDERAL 4H @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAPP2202546495] MADURO NORTH FED 4H**

Location of Release Source	
Site Name	**Maduro North Federal 4H**
Date Release Discovered	**04/29/2025**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	20,000
What is the estimated number of samples that will be gathered	150
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/13/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources (432-813-8988)
Please provide any information necessary for navigation to sampling site	32.651220, -103.692520

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CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 492494
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
athielke	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.	8/6/2025
athielke	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	8/6/2025

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QUESTIONS

Action 495884

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 495884
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2512052637**
Incident Name	**NAPP2512052637 MADURO NORTH FEDERAL 4H @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Facility	**[fAPP2202546495] MADURO NORTH FED 4H**

Location of Release Source	
Site Name	**Maduro North Federal 4H**
Date Release Discovered	**04/29/2025**
Surface Owner	**Federal**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	20,000
What is the estimated number of samples that will be gathered	150
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/20/2025
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Carmona Resources (432-813-8988)
Please provide any information necessary for navigation to sampling site	32.651220, -103.692520

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CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 495884
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
athielke	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.	8/14/2025
athielke	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	8/14/2025

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QUESTIONS

Action 507595

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 507595
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2512052637**
Incident Name	**NAPP2512052637 MADURO NORTH FEDERAL 4H @ 30-025-39998**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Well	**[30-025-39998] NORTH MADURO FEDERAL UNIT #004H**
Incident Facility	**[fAPP2202546495] MADURO NORTH FED 4H**

Location of Release Source	
Site Name	**MADURO NORTH FEDERAL 4H**
Date Release Discovered	**04/29/2025**
Surface Owner	**Federal**

Liner Inspection Event Information *Please answer all the questions in this group.*	
What is the liner inspection surface area in square feet	2,400
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	09/24/2025
Time liner inspection will commence	12:30 PM
Please provide any information necessary for observers to liner inspection	Laci Luig - 432-208-3035
Please provide any information necessary for navigation to liner inspection site	32.65122,-103.69252

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 507595
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
athielke	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.	9/19/2025

Liner Integrity Certification

The following serves to verify that the affected liner has been inspected and found to be in serviceable condition in accordance with 19.15.29.11 A.(5)(a)(i-ii) of the New Mexico Administrative Code.

Facility ID: fAPP2202546495

Date: 09.24.2025

Incident ID(s): NAPP2512052637

- ☑ Responsible Party has visually inspected the liner.
- ☑ Liner remains intact and was able to contain the leak in question.
- ☑ At least two business days' notice was given to the appropriate division district office before conducting the liner inspection.
- ☑ Photographs illustrating liner integrity are included.

APPENDIX D

CARMONA RESOURCES



Nearest Well

Cimarex Energy Co.

Legend

- 0.29 Miles
- 0.50 Mile Radius
- Groundwater Detemination Bore
- Maduro North Federal Unit 4 (4.29.2025)

Maduro North Federal Unit 4 (4.29.2025)

55' GWDB - Drilled 2025

Google Earth

Released to Imaging: 9/25/2025 3:18:41 PM

Image © 2025 Airbus

N

3000 ft

Low Karst

Cimarex Energy Co.

Legend

Low

Maduro North Federal Unit 4 (4.29.2025)

Maduro North Federal Unit 4 (4.29.2025)

Released to Imaging: 9/25/2025 3:18:41 PM

Image © 2025 Airbus

Google Earth

N

1 mi

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 smallest to largest)

(meters) (In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
CP 01967 POD1		CP	LE	NE	NE	NE	24	19S	32E	620719.8	3613546.4		1911	110		
CP 00805 POD1		CP	LE		SW	NW	18	19S	33E	621057.0	3614563.0 *		1965	450		
CP 00810 POD1		CP	LE		SW	SW	08	19S	33E	622675.0	3615385.0 *		2008	110		

Average Depth to Water: **0 feet**

Minimum Depth: **0 feet**

Maximum Depth: **0 feet**

Record Count: 3

UTM Filters (in meters):

Easting: 622623.98

Northing: 3613377.19

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.

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
Pod 1		CP-2067

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Coterra Energy	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
840 Gessner Rd. Ste. 1400	Houston	TX	77024-4152

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	38	49.07	N
	LONGITUDE	103	41	30.87	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE

Section 20 Township 19s Range 33e

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1862	James Hawley	H&R Enterprises, LLC

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
8-4-25	8-4-25	105'	105'	N/A

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	110	6"	No casing left in hole				

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
			N/A		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0'	10'		Sand	Y ✓ N	
10'	25'		Red Sandy Caliche	Y ✓ N	
25'	105'		Red Clay	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☑ OTHER – SPECIFY: dry hole

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Depth to groundwater bore was gauged for water on 8-11-25. DTGW bore was dry. Temporary well casing was removed, bore hole was backfilled with drill cuttings to 10' BGS. Hydrated bentonite hole plug was poured from 10' BGS to surface.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Nathan Smelcer

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

JAMES HAWLEY — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

8/11/25 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

PLUGGING RECORD

NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: CP-2067 Pod 1

Well owner: Coterra Energy Phone No.: 575-605-3471

Mailing address: 840 Gessner Rd. Ste. 1400

City: Houston State: TX Zip code: 77024-4152

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: H&R Enterprises, LLC

2) New Mexico Well Driller License No.: WD-1862 Expiration Date: 6/16/27

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Nathan Smelcer

4) Date well plugging began: 8-11-25 Date well plugging concluded: 8-11-25

5) GPS Well Location: Latitude: 32 deg, 38 min, 49.07 sec
Longitude: 103 deg, 41 min, 30.87 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 105 ft below ground level (bgl), by the following manner: well sounder

7) Static water level measured at initiation of plugging: N/A ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 5/15/25

9) Were all plugging activities consistent with an approved plugging plan? yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
	0' - 10' Hydrated Bentonite	Approx. 15 gallons	15 gallons	pour	
	10' - 105' Drill Cuttings	Approx. 139 gallons	139 Gallons	pour	

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

III. SIGNATURE:

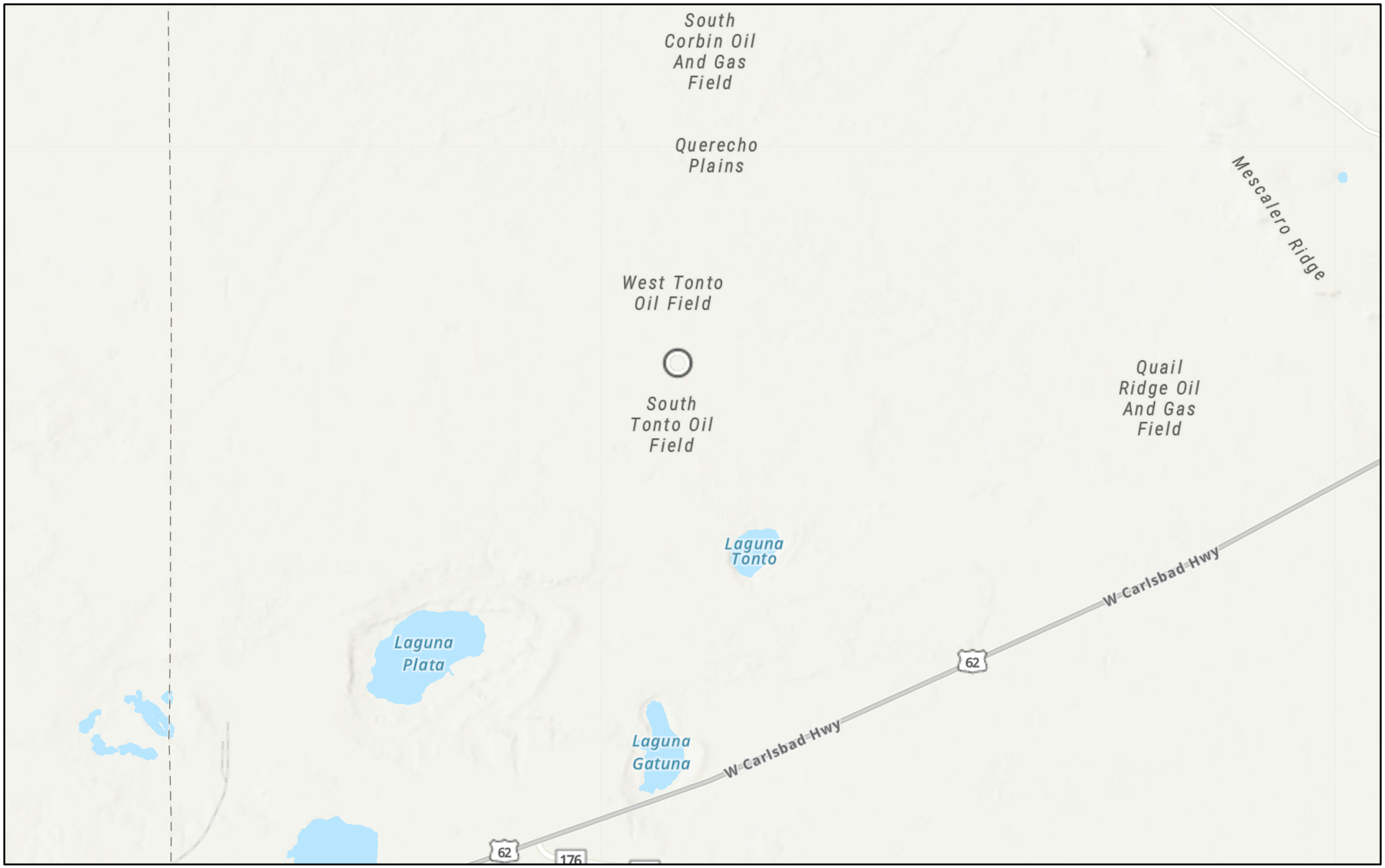
I, James Hawley, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

8/11/25
Date

Version: September 8, 2009
Page 2 of 2

Maduro North Federal Unit 4 (4.29.2025)



5/30/2025

World_Hillshade

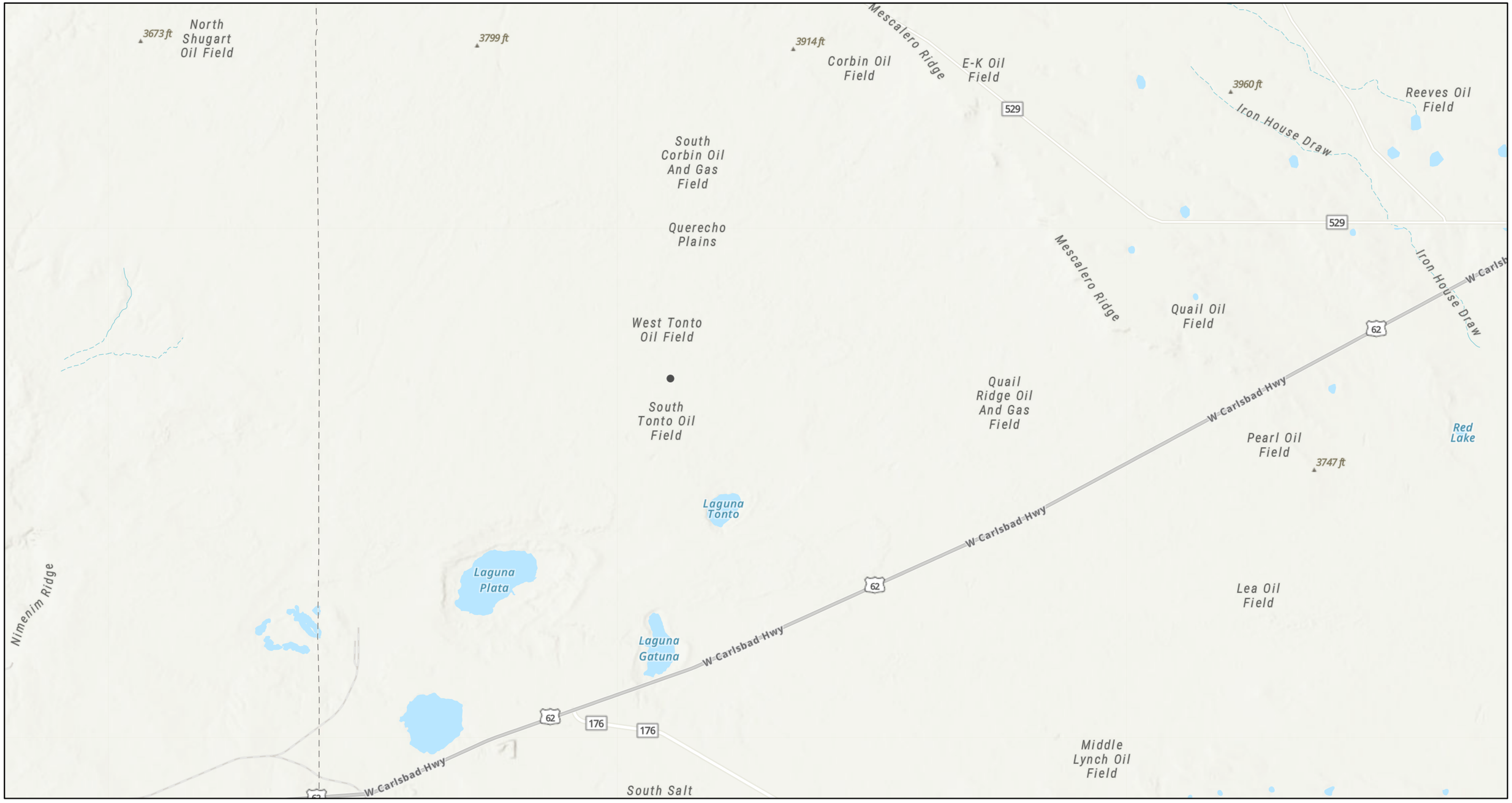
1:144,448

0 1 2 4 mi

0 1.5 3 6 km

Esri, NASA, NGA, USGS, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community

Maduro North Federal Unit 4 (4.29.2025)



5/30/2025, 8:18:43 AM

1:144,448

0 1.5 3 6 mi

0 2.25 4.5 9 km

Esri, NASA, NGA, USGS, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community

APPENDIX E

CARMONA RESOURCES

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 07, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: MADURO NORTH FEDERAL 4H

Enclosed are the results of analyses for samples received by the laboratory on 07/31/25 15:54.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CS - 1 (4.25')	H254683-01	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 2 (4.25')	H254683-02	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 3 (4.25')	H254683-03	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 4 (4.25')	H254683-04	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 5 (4.25')	H254683-05	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 6 (4.25')	H254683-06	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 7 (4.25')	H254683-07	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 8 (4.25')	H254683-08	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 9 (4.25')	H254683-09	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 10 (4.25')	H254683-10	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 11 (4.25')	H254683-11	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 12 (4.25')	H254683-12	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 13 (4.25')	H254683-13	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 14 (4.25')	H254683-14	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 15 (4.25')	H254683-15	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 16 (4.25')	H254683-16	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 17 (0.5')	H254683-17	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 18 (0.5')	H254683-18	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 19 (0.5')	H254683-19	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 20 (0.5')	H254683-20	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 21 (1.5')	H254683-21	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 22 (1.5')	H254683-22	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 23 (1.5')	H254683-23	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 24 (1.5')	H254683-24	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 25 (1.5')	H254683-25	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 26 (1.5')	H254683-26	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 27 (1.5')	H254683-27	Soil	30-Jul-25 00:00	31-Jul-25 15:54

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 28 (1.5')	H254683-28	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 29 (4.25')	H254683-29	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 30 (4.25')	H254683-30	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 31 (4.25')	H254683-31	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 32 (4.25')	H254683-32	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 33 (4.25')	H254683-33	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 34 (4.25')	H254683-34	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 35 (4.25')	H254683-35	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 36 (4.25')	H254683-36	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 37 (4.25')	H254683-37	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 38 (4.25')	H254683-38	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 39 (4.25')	H254683-39	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 40 (4.25')	H254683-40	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 41 (4.25')	H254683-41	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 42 (4.25')	H254683-42	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 43 (4.25')	H254683-43	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 44 (4.25')	H254683-44	Soil	30-Jul-25 00:00	31-Jul-25 15:54
CS - 45 (4.25')	H254683-45	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 1 (4.25')	H254683-46	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 2 (4.25')	H254683-47	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 3 (4.25')	H254683-48	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 4 (4.25')	H254683-49	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 5 (4.25')	H254683-50	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 6 (4.25')	H254683-51	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 7 (4.25')	H254683-52	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 8 (4.25')	H254683-53	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 9 (4.25')	H254683-54	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 10 (4.25')	H254683-55	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 11 (4.25')	H254683-56	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 12 (4.25')	H254683-57	Soil	30-Jul-25 00:00	31-Jul-25 15:54

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 13 (1.5')	H254683-58	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 14 (1.5')	H254683-59	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 15 (1.5')	H254683-60	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 16 (1.5')	H254683-61	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 17 (1.5')	H254683-62	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 18 (1.5'-4.25')	H254683-63	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 19 (1.5')	H254683-64	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 20 (4.25')	H254683-65	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 21 (4.25')	H254683-66	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 22 (4.25')	H254683-67	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 23 (4.25')	H254683-68	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 24 (4.25')	H254683-69	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 25 (4.25')	H254683-70	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 26 (4.25')	H254683-71	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 27 (4.25')	H254683-72	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 28 (4.25')	H254683-73	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 29 (4.25')	H254683-74	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 30 (4.25')	H254683-75	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 31 (4.25')	H254683-76	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 32 (4.25')	H254683-77	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 33 (4.25')	H254683-78	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 34 (4.25')	H254683-79	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 35 (4.25')	H254683-80	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 36 (4.25')	H254683-81	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 37 (4.25')	H254683-82	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 38 (4.25')	H254683-83	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 39 (4.25')	H254683-84	Soil	30-Jul-25 00:00	31-Jul-25 15:54
SW - 40 (4.25')	H254683-85	Soil	30-Jul-25 00:00	31-Jul-25 15:54

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

08/07/25 - Client changed the sample depths on -65 thru -84 (see COC). This is the revised report and will replace the one sent on 08/05/25.

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 1 (4.25')

H254683-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**96.0**		16.0	mg/kg	4	5080127	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*106 %*	*71.5-134*		*5080115*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5073131	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5073131	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5073131	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*85.6 %*	*44.4-145*		*5073131*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*84.7 %*	*40.6-153*		*5073131*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 2 (4.25')

H254683-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**96.0**		16.0	mg/kg	4	5080127	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*110 %*	*71.5-134*		*5080115*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*81.9 %*	*44.4-145*		*5080104*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*81.7 %*	*40.6-153*		*5080104*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 3 (4.25')

H254683-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**96.0**		16.0	mg/kg	4	5080127	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*107 %*	*71.5-134*		*5080115*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*83.7 %*	*44.4-145*		*5080104*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*82.9 %*	*40.6-153*		*5080104*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 4 (4.25')

H254683-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**80.0**		16.0	mg/kg	4	5080127	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*105 %*	*71.5-134*		*5080115*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*85.6 %*	*44.4-145*		*5080104*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*85.3 %*	*40.6-153*		*5080104*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 5 (4.25')

H254683-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**80.0**		16.0	mg/kg	4	5080127	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*84.6 %*	*71.5-134*		*5080115*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*91.6 %*	*44.4-145*		*5080104*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*91.5 %*	*40.6-153*		*5080104*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 6 (4.25')

H254683-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**96.0**		16.0	mg/kg	4	5080127	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*5080115*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*89.6 %*	*44.4-145*		*5080104*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*88.2 %*	*40.6-153*		*5080104*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 7 (4.25')

H254683-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**80.0**		16.0	mg/kg	4	5080127	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*105 %*	*71.5-134*		*5080115*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*83.8 %*	*44.4-145*		*5080104*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*83.2 %*	*40.6-153*		*5080104*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 8 (4.25')

H254683-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**64.0**		16.0	mg/kg	4	5080127	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*108 %*	*71.5-134*		*5080115*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*88.5 %*	*44.4-145*		*5080104*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*86.8 %*	*40.6-153*		*5080104*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 9 (4.25')

H254683-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**96.0**		16.0	mg/kg	4	5080127	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*111 %*	*71.5-134*		*5080115*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*86.4 %*	*44.4-145*		*5080104*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*85.9 %*	*40.6-153*		*5080104*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 10 (4.25')

H254683-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**80.0**		16.0	mg/kg	4	5080127	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*108 %*	*71.5-134*		*5080115*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*94.8 %*	*44.4-145*		*5080104*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*93.8 %*	*40.6-153*		*5080104*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 11 (4.25')

H254683-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**80.0**		16.0	mg/kg	4	5080127	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*113 %*	*71.5-134*		*5080115*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*96.0 %*	*44.4-145*		*5080104*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*94.9 %*	*40.6-153*		*5080104*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 12 (4.25')

H254683-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**96.0**		16.0	mg/kg	4	5080127	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*107 %*	*71.5-134*		*5080115*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*76.8 %*	*44.4-145*		*5080104*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*80.6 %*	*40.6-153*		*5080104*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 13 (4.25')

H254683-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**80.0**		16.0	mg/kg	4	5080127	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*107 %*	*71.5-134*		*5080115*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*81.4 %*	*44.4-145*		*5080104*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*80.5 %*	*40.6-153*		*5080104*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 14 (4.25')

H254683-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**80.0**		16.0	mg/kg	4	5080127	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*109 %*	*71.5-134*		*5080115*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*86.8 %*	*44.4-145*		*5080104*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*85.6 %*	*40.6-153*		*5080104*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 15 (4.25')

H254683-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**112**		16.0	mg/kg	4	5080143	AC	01-Aug-25	4500-Cl-B	QM-07
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*105 %*	*71.5-134*		*5080115*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*61.6 %*	*44.4-145*		*5080104*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*60.1 %*	*40.6-153*		*5080104*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 16 (4.25')

H254683-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**80.0**		16.0	mg/kg	4	5080143	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*108 %*	*71.5-134*		*5080115*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*74.4 %*	*44.4-145*		*5080104*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*73.1 %*	*40.6-153*		*5080104*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 17 (0.5')

H254683-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**80.0**		16.0	mg/kg	4	5080143	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*104 %*	*71.5-134*		*5080115*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*94.4 %*	*44.4-145*		*5080104*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*94.3 %*	*40.6-153*		*5080104*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 18 (0.5')

H254683-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**64.0**		16.0	mg/kg	4	5080143	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*109 %*	*71.5-134*		*5080115*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*93.5 %*	*44.4-145*		*5080104*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*95.5 %*	*40.6-153*		*5080104*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 19 (0.5')

H254683-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**64.0**		16.0	mg/kg	4	5080143	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*5080115*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*98.7 %*	*44.4-145*		*5080104*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*98.5 %*	*40.6-153*		*5080104*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 20 (0.5')

H254683-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080143	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080115	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*105 %*	*71.5-134*		*5080115*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*91.2 %*	*44.4-145*		*5080104*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*90.5 %*	*40.6-153*		*5080104*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 21 (1.5')

H254683-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080143	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*93.2 %*	*71.5-134*		*5080116*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080104	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*100 %*	*44.4-145*		*5080104*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*98.2 %*	*40.6-153*		*5080104*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 22 (1.5')

H254683-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080143	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*93.8 %*	*71.5-134*		*5080116*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*99.7 %*	*44.4-145*		*5080105*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*98.2 %*	*40.6-153*		*5080105*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 23 (1.5')

H254683-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**64.0**		16.0	mg/kg	4	5080143	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*94.4 %*	*71.5-134*		*5080116*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*97.1 %*	*44.4-145*		*5080105*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*94.8 %*	*40.6-153*		*5080105*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 24 (1.5')

H254683-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**64.0**		16.0	mg/kg	4	5080143	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*93.9 %*	*71.5-134*		*5080116*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*95.5 %*	*44.4-145*		*5080105*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*92.7 %*	*40.6-153*		*5080105*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

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CS - 25 (1.5')

H254683-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080143	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*93.4 %*	*71.5-134*		*5080116*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*97.8 %*	*44.4-145*		*5080105*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*93.6 %*	*40.6-153*		*5080105*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 26 (1.5')

H254683-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080143	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*93.9 %*	*71.5-134*		*5080116*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*98.5 %*	*44.4-145*		*5080105*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*94.4 %*	*40.6-153*		*5080105*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 27 (1.5')

H254683-27 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080143	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*93.7 %*	*71.5-134*		*5080116*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*84.6 %*	*44.4-145*		*5080105*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*80.3 %*	*40.6-153*		*5080105*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 28 (1.5')

H254683-28 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080143	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*93.6 %*	*71.5-134*		*5080116*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*91.4 %*	*44.4-145*		*5080105*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*87.5 %*	*40.6-153*		*5080105*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

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CS - 29 (4.25')

H254683-29 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	5080143	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*94.3 %*	*71.5-134*		*5080116*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*82.9 %*	*44.4-145*		*5080105*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*79.5 %*	*40.6-153*		*5080105*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 30 (4.25')

H254683-30 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**64.0**		16.0	mg/kg	4	5080143	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*93.4 %*	*71.5-134*		*5080116*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*88.7 %*	*44.4-145*		*5080105*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*84.3 %*	*40.6-153*		*5080105*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 31 (4.25')

H254683-31 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080143	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*93.9 %*	*71.5-134*		*5080116*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*91.4 %*	*44.4-145*		*5080105*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*86.7 %*	*40.6-153*		*5080105*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 32 (4.25')

H254683-32 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080143	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*93.5 %*	*71.5-134*		*5080116*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*79.4 %*	*44.4-145*		*5080105*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*76.7 %*	*40.6-153*		*5080105*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 33 (4.25')

H254683-33 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080143	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*94.0 %*	*71.5-134*		*5080116*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*74.0 %*	*44.4-145*		*5080105*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*70.2 %*	*40.6-153*		*5080105*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 34 (4.25')

H254683-34 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080143	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*94.1 %*	*71.5-134*		*5080116*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*76.7 %*	*44.4-145*		*5080105*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*72.8 %*	*40.6-153*		*5080105*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 35 (4.25')

H254683-35 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	5080140	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*94.8 %*	*71.5-134*		*5080116*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*88.9 %*	*44.4-145*		*5080105*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*85.2 %*	*40.6-153*		*5080105*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 36 (4.25')

H254683-36 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	5080140	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*93.9 %*	*71.5-134*		*5080116*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*89.3 %*	*44.4-145*		*5080105*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*85.4 %*	*40.6-153*		*5080105*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 37 (4.25')

H254683-37 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	5080140	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*94.8 %*	*71.5-134*		*5080116*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*84.2 %*	*44.4-145*		*5080105*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*77.6 %*	*40.6-153*		*5080105*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 38 (4.25')

H254683-38 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**16.0**		16.0	mg/kg	4	5080140	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*94.4 %*	*71.5-134*		*5080116*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*98.8 %*	*44.4-145*		*5080105*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*91.9 %*	*40.6-153*		*5080105*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 39 (4.25')

H254683-39 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	5080140	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*94.4 %*	*71.5-134*		*5080116*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*96.4 %*	*44.4-145*		*5080105*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*89.6 %*	*40.6-153*		*5080105*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 40 (4.25')

H254683-40 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080140	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080116	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*93.9 %*	*71.5-134*		*5080116*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*88.6 %*	*44.4-145*		*5080105*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*82.6 %*	*40.6-153*		*5080105*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 41 (4.25')

H254683-41 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	5080140	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*101 %*	*71.5-134*		*5080117*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080105	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*86.0 %*	*44.4-145*		*5080105*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*80.1 %*	*40.6-153*		*5080105*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 42 (4.25')

H254683-42 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080140	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*5080117*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*89.0 %*	*44.4-145*		*5080106*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*86.6 %*	*40.6-153*		*5080106*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 43 (4.25')

H254683-43 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	5080140	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*5080117*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*93.2 %*	*44.4-145*		*5080106*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*89.8 %*	*40.6-153*		*5080106*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 44 (4.25')

H254683-44 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080140	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*5080117*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*93.7 %*	*44.4-145*		*5080106*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*90.1 %*	*40.6-153*		*5080106*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

CS - 45 (4.25')

H254683-45 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	5080140	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*101 %*	*71.5-134*		*5080117*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*96.4 %*	*44.4-145*		*5080106*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*95.2 %*	*40.6-153*		*5080106*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 1 (4.25')

H254683-46 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**160**		16.0	mg/kg	4	5080140	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*101 %*	*71.5-134*		*5080117*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*101 %*	*44.4-145*		*5080106*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*96.5 %*	*40.6-153*		*5080106*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 2 (4.25')

H254683-47 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**128**		16.0	mg/kg	4	5080140	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*99.3 %*	*71.5-134*		*5080117*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*88.8 %*	*44.4-145*		*5080106*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*86.0 %*	*40.6-153*		*5080106*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 3 (4.25')

H254683-48 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**144**		16.0	mg/kg	4	5080140	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*101 %*	*71.5-134*		*5080117*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*99.8 %*	*44.4-145*		*5080106*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*96.2 %*	*40.6-153*		*5080106*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 4 (4.25')

H254683-49 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**144**		16.0	mg/kg	4	5080140	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*5080117*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*109 %*	*44.4-145*		*5080106*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*103 %*	*40.6-153*		*5080106*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 5 (4.25')

H254683-50 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**112**		16.0	mg/kg	4	5080140	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*101 %*	*71.5-134*		*5080117*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*99.2 %*	*44.4-145*		*5080106*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*94.9 %*	*40.6-153*		*5080106*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 6 (4.25')

H254683-51 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**128**		16.0	mg/kg	4	5080140	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*101 %*	*71.5-134*		*5080117*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*97.0 %*	*44.4-145*		*5080106*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*93.6 %*	*40.6-153*		*5080106*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 7 (4.25')

H254683-52 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**112**		16.0	mg/kg	4	5080140	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*100 %*	*71.5-134*		*5080117*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*96.3 %*	*44.4-145*		*5080106*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*99.0 %*	*40.6-153*		*5080106*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 8 (4.25')

H254683-53 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**160**		16.0	mg/kg	4	5080140	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*5080117*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*97.6 %*	*44.4-145*		*5080106*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*94.0 %*	*40.6-153*		*5080106*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 9 (4.25')

H254683-54 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**192**		16.0	mg/kg	4	5080140	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*101 %*	*71.5-134*		*5080117*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*99.7 %*	*44.4-145*		*5080106*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*97.3 %*	*40.6-153*		*5080106*	MS	*01-Aug-25*	*8015B*	

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SW - 10 (4.25')

H254683-55 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**192**		16.0	mg/kg	4	5080138	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*5080117*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*95.7 %*	*44.4-145*		*5080106*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*92.7 %*	*40.6-153*		*5080106*	MS	*01-Aug-25*	*8015B*	

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SW - 11 (4.25')

H254683-56 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**192**		16.0	mg/kg	4	5080138	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080117	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*5080117*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*97.2 %*	*44.4-145*		*5080106*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*94.3 %*	*40.6-153*		*5080106*	MS	*01-Aug-25*	*8015B*	

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CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 12 (4.25')

H254683-57 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**176**		16.0	mg/kg	4	5080138	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080117	JH	02-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080117	JH	02-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080117	JH	02-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080117	JH	02-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080117	JH	02-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*99.9 %*	*71.5-134*		*5080117*	JH	*02-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*104 %*	*44.4-145*		*5080106*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*100 %*	*40.6-153*		*5080106*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

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SW - 13 (1.5')

H254683-58 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080138	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080117	JH	02-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080117	JH	02-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080117	JH	02-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080117	JH	02-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080117	JH	02-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*103 %*	*71.5-134*		*5080117*	JH	*02-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*103 %*	*44.4-145*		*5080106*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*99.9 %*	*40.6-153*		*5080106*	MS	*01-Aug-25*	*8015B*	

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SW - 14 (1.5')

H254683-59 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080138	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080117	JH	02-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080117	JH	02-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080117	JH	02-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080117	JH	02-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080117	JH	02-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*100 %*	*71.5-134*		*5080117*	JH	*02-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*108 %*	*44.4-145*		*5080106*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*105 %*	*40.6-153*		*5080106*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 15 (1.5')

H254683-60 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080138	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080117	JH	02-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080117	JH	02-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080117	JH	02-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080117	JH	02-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080117	JH	02-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*99.0 %*	*71.5-134*		*5080117*	JH	*02-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080106	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*102 %*	*44.4-145*		*5080106*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*103 %*	*40.6-153*		*5080106*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 16 (1.5')

H254683-61 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080138	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*112 %*	*71.5-134*		*5080119*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080106	MS	02-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080106	MS	02-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080106	MS	02-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*112 %*	*44.4-145*		*5080106*	MS	*02-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*106 %*	*40.6-153*		*5080106*	MS	*02-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 17 (1.5')

H254683-62 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080138	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*107 %*	*71.5-134*		*5080119*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*111 %*	*44.4-145*		*5080107*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*104 %*	*40.6-153*		*5080107*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 18 (1.5'-4.25')

H254683-63 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	5080138	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*112 %*	*71.5-134*		*5080119*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*93.0 %*	*44.4-145*		*5080107*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*86.7 %*	*40.6-153*		*5080107*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 19 (1.5')

H254683-64 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080138	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*108 %*	*71.5-134*		*5080119*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*108 %*	*44.4-145*		*5080107*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*101 %*	*40.6-153*		*5080107*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 20 (4.25')

H254683-65 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	5080138	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*109 %*	*71.5-134*		*5080119*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*93.0 %*	*44.4-145*		*5080107*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*86.0 %*	*40.6-153*		*5080107*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 21 (4.25')

H254683-66 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080138	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*107 %*	*71.5-134*		*5080119*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*92.1 %*	*44.4-145*		*5080107*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*85.4 %*	*40.6-153*		*5080107*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 22 (4.25')

H254683-67 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080138	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*109 %*	*71.5-134*		*5080119*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*94.0 %*	*44.4-145*		*5080107*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*86.9 %*	*40.6-153*		*5080107*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 23 (4.25')

H254683-68 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080138	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*106 %*	*71.5-134*		*5080119*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*98.3 %*	*44.4-145*		*5080107*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*90.5 %*	*40.6-153*		*5080107*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 24 (4.25')

H254683-69 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	5080138	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*109 %*	*71.5-134*		*5080119*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*76.4 %*	*44.4-145*		*5080107*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*70.5 %*	*40.6-153*		*5080107*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 25 (4.25')

H254683-70 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	5080138	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*111 %*	*71.5-134*		*5080119*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*86.1 %*	*44.4-145*		*5080107*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*79.4 %*	*40.6-153*		*5080107*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 26 (4.25')

H254683-71 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080138	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*110 %*	*71.5-134*		*5080119*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*77.3 %*	*44.4-145*		*5080107*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*70.6 %*	*40.6-153*		*5080107*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 27 (4.25')

H254683-72 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	5080138	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*109 %*	*71.5-134*		*5080119*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*89.3 %*	*44.4-145*		*5080107*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*82.1 %*	*40.6-153*		*5080107*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 28 (4.25')

H254683-73 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080138	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*110 %*	*71.5-134*		*5080119*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*84.9 %*	*44.4-145*		*5080107*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*78.1 %*	*40.6-153*		*5080107*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 29 (4.25')

H254683-74 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	5080138	KH	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*107 %*	*71.5-134*		*5080119*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*87.8 %*	*44.4-145*		*5080107*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*80.6 %*	*40.6-153*		*5080107*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 30 (4.25')

H254683-75 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	5080145	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*110 %*	*71.5-134*		*5080119*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*81.5 %*	*44.4-145*		*5080107*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*74.5 %*	*40.6-153*		*5080107*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

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SW - 31 (4.25')

H254683-76 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**64.0**		16.0	mg/kg	4	5080145	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080119	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*109 %*	*71.5-134*		*5080119*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*89.0 %*	*44.4-145*		*5080107*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*80.9 %*	*40.6-153*		*5080107*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 32 (4.25')

H254683-77 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**176**		16.0	mg/kg	4	5080145	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080119	JH	02-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080119	JH	02-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080119	JH	02-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080119	JH	02-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080119	JH	02-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*105 %*	*71.5-134*		*5080119*	JH	*02-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*97.1 %*	*44.4-145*		*5080107*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*90.6 %*	*40.6-153*		*5080107*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 33 (4.25')

H254683-78 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**224**		16.0	mg/kg	4	5080145	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080119	JH	02-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080119	JH	02-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080119	JH	02-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080119	JH	02-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080119	JH	02-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*114 %*	*71.5-134*		*5080119*	JH	*02-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*96.9 %*	*44.4-145*		*5080107*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*89.4 %*	*40.6-153*		*5080107*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 34 (4.25')

H254683-79 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**208**		16.0	mg/kg	4	5080145	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080119	JH	02-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080119	JH	02-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080119	JH	02-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080119	JH	02-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080119	JH	02-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*109 %*	*71.5-134*		*5080119*	JH	*02-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080107	MS	01-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*86.7 %*	*44.4-145*		*5080107*	MS	*01-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*81.1 %*	*40.6-153*		*5080107*	MS	*01-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 35 (4.25')

H254683-80 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**192**		16.0	mg/kg	4	5080145	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5080119	JH	02-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5080119	JH	02-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5080119	JH	02-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5080119	JH	02-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5080119	JH	02-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*108 %*	*71.5-134*		*5080119*	JH	*02-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080107	MS	02-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080107	MS	02-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080107	MS	02-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*90.2 %*	*44.4-145*		*5080107*	MS	*02-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*84.3 %*	*40.6-153*		*5080107*	MS	*02-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 36 (4.25')

H254683-81 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**192**		16.0	mg/kg	4	5080145	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*101 %*	*71.5-134*		*5073124*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080107	MS	02-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080107	MS	02-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080107	MS	02-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*94.6 %*	*44.4-145*		*5080107*	MS	*02-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*88.0 %*	*40.6-153*		*5080107*	MS	*02-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 37 (4.25')

H254683-82 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**176**		16.0	mg/kg	4	5080145	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*5073124*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080120	MS	04-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080120	MS	04-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080120	MS	04-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*91.9 %*	*44.4-145*		*5080120*	MS	*04-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*86.9 %*	*40.6-153*		*5080120*	MS	*04-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 38 (4.25')

H254683-83 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**176**		16.0	mg/kg	4	5080145	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*5073124*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080120	MS	04-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080120	MS	04-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080120	MS	04-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*99.7 %*	*44.4-145*		*5080120*	MS	*04-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*93.3 %*	*40.6-153*		*5080120*	MS	*04-Aug-25*	*8015B*	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

SW - 39 (4.25')

H254683-84 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**192**		16.0	mg/kg	4	5080145	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*102 %*	*71.5-134*		*5073124*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080120	MS	04-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080120	MS	04-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080120	MS	04-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*89.5 %*	*44.4-145*		*5080120*	MS	*04-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*83.8 %*	*40.6-153*		*5080120*	MS	*04-Aug-25*	*8015B*	

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Analytical Results For:

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SW - 40 (4.25')

H254683-85 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**176**		16.0	mg/kg	4	5080145	AC	01-Aug-25	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5073124	JH	01-Aug-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*100 %*	*71.5-134*		*5073124*	JH	*01-Aug-25*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	5080120	MS	04-Aug-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5080120	MS	04-Aug-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5080120	MS	04-Aug-25	8015B	
Surrogate: 1-Chlorooctane			*101 %*	*44.4-145*		*5080120*	MS	*04-Aug-25*	*8015B*	
Surrogate: 1-Chlorooctadecane			*95.2 %*	*40.6-153*		*5080120*	MS	*04-Aug-25*	*8015B*	

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080127 - 1:4 DI Water										
Blank (5080127-BLK1)				Prepared & Analyzed: 01-Aug-25						
Chloride	ND	16.0	mg/kg							
LCS (5080127-BS1)				Prepared & Analyzed: 01-Aug-25						
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (5080127-BSD1)				Prepared & Analyzed: 01-Aug-25						
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
Batch 5080138 - 1:4 DI Water										
Blank (5080138-BLK1)				Prepared & Analyzed: 01-Aug-25						
Chloride	ND	16.0	mg/kg							
LCS (5080138-BS1)				Prepared & Analyzed: 01-Aug-25						
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (5080138-BSD1)				Prepared & Analyzed: 01-Aug-25						
Chloride	432	16.0	mg/kg	400		108	80-120	7.69	20	
Batch 5080140 - 1:4 DI Water										
Blank (5080140-BLK1)				Prepared & Analyzed: 01-Aug-25						
Chloride	ND	16.0	mg/kg							
LCS (5080140-BS1)				Prepared & Analyzed: 01-Aug-25						
Chloride	416	16.0	mg/kg	400		104	80-120			

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080140 - 1:4 DI Water										
LCS Dup (5080140-BSD1)				Prepared & Analyzed: 01-Aug-25						
Chloride	448	16.0	mg/kg	400		112	80-120	7.41	20	
Batch 5080143 - 1:4 DI Water										
Blank (5080143-BLK1)				Prepared & Analyzed: 01-Aug-25						
Chloride	ND	16.0	mg/kg							
LCS (5080143-BS1)				Prepared & Analyzed: 01-Aug-25						
Chloride	464	16.0	mg/kg	400		116	80-120			
LCS Dup (5080143-BSD1)				Prepared & Analyzed: 01-Aug-25						
Chloride	480	16.0	mg/kg	400		120	80-120	3.39	20	
Batch 5080145 - 1:4 DI Water										
Blank (5080145-BLK1)				Prepared & Analyzed: 01-Aug-25						
Chloride	ND	16.0	mg/kg							
LCS (5080145-BS1)				Prepared & Analyzed: 01-Aug-25						
Chloride	480	16.0	mg/kg	400		120	80-120			
LCS Dup (5080145-BSD1)				Prepared & Analyzed: 01-Aug-25						
Chloride	480	16.0	mg/kg	400		120	80-120	0.00	20	

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5073124 - Volatiles										
Blank (5073124-BLK1)				Prepared: 31-Jul-25 Analyzed: 01-Aug-25						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0506*		mg/kg	*0.0500*		*101*	*71.5-134*			
LCS (5073124-BS1)				Prepared: 31-Jul-25 Analyzed: 01-Aug-25						
Benzene	1.83	0.050	mg/kg	2.00		91.7	76.3-129			
Toluene	1.84	0.050	mg/kg	2.00		92.1	84.1-129			
Ethylbenzene	1.87	0.050	mg/kg	2.00		93.7	80.1-133			
m,p-Xylene	3.84	0.100	mg/kg	4.00		96.0	81.4-134			
o-Xylene	1.90	0.050	mg/kg	2.00		95.2	81.4-133			
Total Xylenes	5.74	0.150	mg/kg	6.00		95.7	81.5-134			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0498*		mg/kg	*0.0500*		*99.6*	*71.5-134*			
LCS Dup (5073124-BSD1)				Prepared: 31-Jul-25 Analyzed: 01-Aug-25						
Benzene	1.78	0.050	mg/kg	2.00		89.2	76.3-129	2.82	15.8	
Toluene	1.82	0.050	mg/kg	2.00		91.2	84.1-129	0.962	15.9	
Ethylbenzene	1.89	0.050	mg/kg	2.00		94.5	80.1-133	0.792	16	
m,p-Xylene	3.87	0.100	mg/kg	4.00		96.7	81.4-134	0.677	16.2	
o-Xylene	1.89	0.050	mg/kg	2.00		94.5	81.4-133	0.718	16.7	
Total Xylenes	5.76	0.150	mg/kg	6.00		95.9	81.5-134	0.217	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0498*		mg/kg	*0.0500*		*99.6*	*71.5-134*			
Batch 5080115 - Volatiles										
Blank (5080115-BLK1)				Prepared & Analyzed: 01-Aug-25						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080115 - Volatiles										
Blank (5080115-BLK1)				Prepared & Analyzed: 01-Aug-25						
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0534*		mg/kg	*0.0500*		*107*	*71.5-134*			
LCS (5080115-BS1)				Prepared & Analyzed: 01-Aug-25						
Benzene	1.85	0.050	mg/kg	2.00		92.7	76.3-129			
Toluene	1.92	0.050	mg/kg	2.00		96.0	84.1-129			
Ethylbenzene	1.96	0.050	mg/kg	2.00		97.9	80.1-133			
m,p-Xylene	4.15	0.100	mg/kg	4.00		104	81.4-134			
o-Xylene	2.09	0.050	mg/kg	2.00		105	81.4-133			
Total Xylenes	6.24	0.150	mg/kg	6.00		104	81.5-134			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0499*		mg/kg	*0.0500*		*99.8*	*71.5-134*			
LCS Dup (5080115-BSD1)				Prepared & Analyzed: 01-Aug-25						
Benzene	1.79	0.050	mg/kg	2.00		89.3	76.3-129	3.77	15.8	
Toluene	1.88	0.050	mg/kg	2.00		93.8	84.1-129	2.35	15.9	
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.4	80.1-133	2.64	16	
m,p-Xylene	4.03	0.100	mg/kg	4.00		101	81.4-134	2.94	16.2	
o-Xylene	2.03	0.050	mg/kg	2.00		102	81.4-133	2.95	16.7	
Total Xylenes	6.06	0.150	mg/kg	6.00		101	81.5-134	2.94	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0490*		mg/kg	*0.0500*		*98.1*	*71.5-134*			
Batch 5080116 - Volatiles										
Blank (5080116-BLK1)				Prepared & Analyzed: 01-Aug-25						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*ND*		mg/kg	*0.0500*		*92.9*	*71.5-134*			

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080116 - Volatiles										
LCS (5080116-BS1)				Prepared & Analyzed: 01-Aug-25						
Benzene	1.79	0.050	mg/kg	2.00		89.3	76.3-129			
Toluene	1.85	0.050	mg/kg	2.00		92.4	84.1-129			
Ethylbenzene	1.84	0.050	mg/kg	2.00		92.1	80.1-133			
m,p-Xylene	3.64	0.100	mg/kg	4.00		90.9	81.4-134			
o-Xylene	1.81	0.050	mg/kg	2.00		90.4	81.4-133			
Total Xylenes	5.44	0.150	mg/kg	6.00		90.7	81.5-134			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0453*		mg/kg	*0.0500*		*90.6*	*71.5-134*			
LCS Dup (5080116-BSD1)				Prepared & Analyzed: 01-Aug-25						
Benzene	1.72	0.050	mg/kg	2.00		85.8	76.3-129	4.00	15.8	
Toluene	1.80	0.050	mg/kg	2.00		89.9	84.1-129	2.69	15.9	
Ethylbenzene	1.81	0.050	mg/kg	2.00		90.7	80.1-133	1.49	16	
m,p-Xylene	3.58	0.100	mg/kg	4.00		89.4	81.4-134	1.65	16.2	
o-Xylene	1.79	0.050	mg/kg	2.00		89.3	81.4-133	1.26	16.7	
Total Xylenes	5.36	0.150	mg/kg	6.00		89.4	81.5-134	1.52	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0460*		mg/kg	*0.0500*		*92.0*	*71.5-134*			
Batch 5080117 - Volatiles										
Blank (5080117-BLK1)				Prepared & Analyzed: 01-Aug-25						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0506*		mg/kg	*0.0500*		*101*	*71.5-134*			

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080117 - Volatiles										
LCS (5080117-BS1)				Prepared & Analyzed: 01-Aug-25						
Benzene	1.85	0.050	mg/kg	2.00		92.3	76.3-129			
Toluene	1.86	0.050	mg/kg	2.00		92.8	84.1-129			
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.4	80.1-133			
m,p-Xylene	3.87	0.100	mg/kg	4.00		96.7	81.4-134			
o-Xylene	1.89	0.050	mg/kg	2.00		94.4	81.4-133			
Total Xylenes	5.76	0.150	mg/kg	6.00		96.0	81.5-134			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0496*		mg/kg	*0.0500*		*99.2*	*71.5-134*			
LCS Dup (5080117-BSD1)				Prepared & Analyzed: 01-Aug-25						
Benzene	1.80	0.050	mg/kg	2.00		90.1	76.3-129	2.42	15.8	
Toluene	1.81	0.050	mg/kg	2.00		90.6	84.1-129	2.37	15.9	
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.6	80.1-133	4.07	16	
m,p-Xylene	3.73	0.100	mg/kg	4.00		93.2	81.4-134	3.69	16.2	
o-Xylene	1.84	0.050	mg/kg	2.00		92.0	81.4-133	2.56	16.7	
Total Xylenes	5.57	0.150	mg/kg	6.00		92.8	81.5-134	3.32	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0496*		mg/kg	*0.0500*		*99.3*	*71.5-134*			
Batch 5080119 - Volatiles										
Blank (5080119-BLK1)				Prepared & Analyzed: 01-Aug-25						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0534*		mg/kg	*0.0500*		*107*	*71.5-134*			

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CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080119 - Volatiles										
LCS (5080119-BS1)				Prepared & Analyzed: 01-Aug-25						
Benzene	1.84	0.050	mg/kg	2.00		91.8	76.3-129			
Toluene	1.99	0.050	mg/kg	2.00		99.7	84.1-129			
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	80.1-133			
m,p-Xylene	4.28	0.100	mg/kg	4.00		107	81.4-134			
o-Xylene	2.17	0.050	mg/kg	2.00		108	81.4-133			
Total Xylenes	6.45	0.150	mg/kg	6.00		107	81.5-134			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0510*		mg/kg	*0.0500*		*102*	*71.5-134*			
LCS Dup (5080119-BSD1)				Prepared & Analyzed: 01-Aug-25						
Benzene	1.83	0.050	mg/kg	2.00		91.3	76.3-129	0.465	15.8	
Toluene	1.98	0.050	mg/kg	2.00		98.9	84.1-129	0.819	15.9	
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	80.1-133	0.566	16	
m,p-Xylene	4.26	0.100	mg/kg	4.00		107	81.4-134	0.464	16.2	
o-Xylene	2.16	0.050	mg/kg	2.00		108	81.4-133	0.244	16.7	
Total Xylenes	6.42	0.150	mg/kg	6.00		107	81.5-134	0.390	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0514*		mg/kg	*0.0500*		*103*	*71.5-134*			

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5073131 - General Prep - Organics										
Blank (5073131-BLK1)				Prepared: 31-Jul-25 Analyzed: 01-Aug-25						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*49.4*		mg/kg	*50.0*		*98.9*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*51.6*		mg/kg	*50.0*		*103*	*40.6-153*			
LCS (5073131-BS1)				Prepared: 31-Jul-25 Analyzed: 01-Aug-25						
GRO C6-C10	202	10.0	mg/kg	200		101	81.5-123			
DRO >C10-C28	195	10.0	mg/kg	200		97.3	77.7-122			
Total TPH C6-C28	396	10.0	mg/kg	400		99.1	80.9-121			
Surrogate: 1-Chlorooctane	*51.8*		mg/kg	*50.0*		*104*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*54.4*		mg/kg	*50.0*		*109*	*40.6-153*			
LCS Dup (5073131-BSD1)				Prepared: 31-Jul-25 Analyzed: 01-Aug-25						
GRO C6-C10	214	10.0	mg/kg	200		107	81.5-123	5.87	13	
DRO >C10-C28	208	10.0	mg/kg	200		104	77.7-122	6.92	15.6	
Total TPH C6-C28	422	10.0	mg/kg	400		106	80.9-121	6.39	18.5	
Surrogate: 1-Chlorooctane	*55.3*		mg/kg	*50.0*		*111*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*58.1*		mg/kg	*50.0*		*116*	*40.6-153*			
Batch 5080104 - General Prep - Organics										
Blank (5080104-BLK1)				Prepared & Analyzed: 01-Aug-25						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*53.7*		mg/kg	*50.0*		*107*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*56.3*		mg/kg	*50.0*		*113*	*40.6-153*			

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080104 - General Prep - Organics										
LCS (5080104-BS1)				Prepared & Analyzed: 01-Aug-25						
GRO C6-C10	198	10.0	mg/kg	200		98.8	81.5-123			
DRO >C10-C28	186	10.0	mg/kg	200		92.9	77.7-122			
Total TPH C6-C28	384	10.0	mg/kg	400		95.9	80.9-121			
Surrogate: 1-Chlorooctane	*62.0*		mg/kg	*50.0*		*124*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*59.1*		mg/kg	*50.0*		*118*	*40.6-153*			
LCS Dup (5080104-BSD1)				Prepared & Analyzed: 01-Aug-25						
GRO C6-C10	229	10.0	mg/kg	200		114	81.5-123	14.6	13	QR-04
DRO >C10-C28	200	10.0	mg/kg	200		99.9	77.7-122	7.23	15.6	
Total TPH C6-C28	429	10.0	mg/kg	400		107	80.9-121	11.1	18.5	
Surrogate: 1-Chlorooctane	*65.9*		mg/kg	*50.0*		*132*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*63.8*		mg/kg	*50.0*		*128*	*40.6-153*			
Batch 5080105 - General Prep - Organics										
Blank (5080105-BLK1)				Prepared & Analyzed: 01-Aug-25						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*50.1*		mg/kg	*50.0*		*100*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*48.7*		mg/kg	*50.0*		*97.4*	*40.6-153*			
LCS (5080105-BS1)				Prepared & Analyzed: 01-Aug-25						
GRO C6-C10	224	10.0	mg/kg	200		112	81.5-123			
DRO >C10-C28	208	10.0	mg/kg	200		104	77.7-122			
Total TPH C6-C28	433	10.0	mg/kg	400		108	80.9-121			
Surrogate: 1-Chlorooctane	*52.4*		mg/kg	*50.0*		*105*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*52.2*		mg/kg	*50.0*		*104*	*40.6-153*			

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080105 - General Prep - Organics										
LCS Dup (5080105-BSD1)				Prepared & Analyzed: 01-Aug-25						
GRO C6-C10	236	10.0	mg/kg	200		118	81.5-123	4.99	13	
DRO >C10-C28	221	10.0	mg/kg	200		110	77.7-122	5.80	15.6	
Total TPH C6-C28	457	10.0	mg/kg	400		114	80.9-121	5.38	18.5	
Surrogate: 1-Chlorooctane	*55.8*		mg/kg	*50.0*		*112*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*55.6*		mg/kg	*50.0*		*111*	*40.6-153*			
Batch 5080106 - General Prep - Organics										
Blank (5080106-BLK1)				Prepared & Analyzed: 01-Aug-25						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*51.7*		mg/kg	*50.0*		*103*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*51.4*		mg/kg	*50.0*		*103*	*40.6-153*			
LCS (5080106-BS1)				Prepared & Analyzed: 01-Aug-25						
GRO C6-C10	224	10.0	mg/kg	200		112	81.5-123			
DRO >C10-C28	216	10.0	mg/kg	200		108	77.7-122			
Total TPH C6-C28	439	10.0	mg/kg	400		110	80.9-121			
Surrogate: 1-Chlorooctane	*54.7*		mg/kg	*50.0*		*109*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*54.8*		mg/kg	*50.0*		*110*	*40.6-153*			
LCS Dup (5080106-BSD1)				Prepared & Analyzed: 01-Aug-25						
GRO C6-C10	237	10.0	mg/kg	200		119	81.5-123	5.81	13	
DRO >C10-C28	228	10.0	mg/kg	200		114	77.7-122	5.56	15.6	
Total TPH C6-C28	465	10.0	mg/kg	400		116	80.9-121	5.69	18.5	
Surrogate: 1-Chlorooctane	*58.2*		mg/kg	*50.0*		*116*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*58.1*		mg/kg	*50.0*		*116*	*40.6-153*			

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080107 - General Prep - Organics										
Blank (5080107-BLK1)				Prepared & Analyzed: 01-Aug-25						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*47.5*		mg/kg	*50.0*		*95.1*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*45.4*		mg/kg	*50.0*		*90.8*	*40.6-153*			
LCS (5080107-BS1)				Prepared & Analyzed: 01-Aug-25						
GRO C6-C10	185	10.0	mg/kg	200		92.4	81.5-123			
DRO >C10-C28	202	10.0	mg/kg	200		101	77.7-122			
Total TPH C6-C28	387	10.0	mg/kg	400		96.7	80.9-121			
Surrogate: 1-Chlorooctane	*48.5*		mg/kg	*50.0*		*97.0*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*46.2*		mg/kg	*50.0*		*92.3*	*40.6-153*			
LCS Dup (5080107-BSD1)				Prepared & Analyzed: 01-Aug-25						
GRO C6-C10	200	10.0	mg/kg	200		99.9	81.5-123	7.80	13	
DRO >C10-C28	221	10.0	mg/kg	200		110	77.7-122	8.98	15.6	
Total TPH C6-C28	421	10.0	mg/kg	400		105	80.9-121	8.42	18.5	
Surrogate: 1-Chlorooctane	*53.6*		mg/kg	*50.0*		*107*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*51.3*		mg/kg	*50.0*		*103*	*40.6-153*			
Batch 5080120 - General Prep - Organics										
Blank (5080120-BLK1)				Prepared: 01-Aug-25 Analyzed: 04-Aug-25						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*48.8*		mg/kg	*50.0*		*97.5*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*46.7*		mg/kg	*50.0*		*93.4*	*40.6-153*			

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Analytical Results For:

CARMONA RESOURCES 310 W WALL ST, SUITE 500 MIDLAND TX, 79701	Project: MADURO NORTH FEDERAL 4H Project Number: 2741 Project Manager: ASHTON THIELKE Fax To:	Reported: 07-Aug-25 15:36

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5080120 - General Prep - Organics										
LCS (5080120-BS1)				Prepared: 01-Aug-25 Analyzed: 04-Aug-25						
GRO C6-C10	222	10.0	mg/kg	200		111	81.5-123			
DRO >C10-C28	211	10.0	mg/kg	200		106	77.7-122			
Total TPH C6-C28	433	10.0	mg/kg	400		108	80.9-121			
Surrogate: 1-Chlorooctane	*53.3*		mg/kg	*50.0*		*107*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*52.1*		mg/kg	*50.0*		*104*	*40.6-153*			
LCS Dup (5080120-BSD1)				Prepared: 01-Aug-25 Analyzed: 04-Aug-25						
GRO C6-C10	224	10.0	mg/kg	200		112	81.5-123	0.807	13	
DRO >C10-C28	206	10.0	mg/kg	200		103	77.7-122	2.33	15.6	
Total TPH C6-C28	430	10.0	mg/kg	400		108	80.9-121	0.710	18.5	
Surrogate: 1-Chlorooctane	*59.6*		mg/kg	*50.0*		*119*	*44.4-145*			
Surrogate: 1-Chlorooctadecane	*52.4*		mg/kg	*50.0*		*105*	*40.6-153*			

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 203 of 540

Page 104 of 112

Chain of Custody

Work Order No: H2544083

Page 1 of 9

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	
Project Number:	2741	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	72 Hours
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)	
Received Intact:	(Yes) No	Thermometer ID:	#140	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	+0.3	
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	3.8	
Total Containers:		Corrected Temperature:	3.1	

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 4500	Hold	Sample Comments
CS-1 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-2 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-3 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-4 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-5 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-6 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-7 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-8 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-9 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-10 (4.25')	7/30/2025		X		C	1		X	X	X		

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas			7-31-25/1554

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

Chain of Custody

Work Order No: H25U083

Page 2 of 9

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	
Project Number:	2741	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	72 Hours
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)	
Received Intact:	(Yes) No	Thermometer ID:	#140	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	+0.3	
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	2.8	
Total Containers:		Corrected Temperature:	3.1	

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 4500	Hold	Sample Comments
CS-11 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-12 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-13 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-14 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-15 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-16 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-17 (0.5')	7/30/2025		X		C	1		X	X	X		
CS-18 (0.5')	7/30/2025		X		C	1		X	X	X		
CS-19 (0.5')	7/30/2025		X		C	1		X	X	X		
CS-20 (0.5')	7/30/2025		X		C	1		X	X	X		

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas			7.31.25 1554

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

Page 205 of 540

Page 106 of 112

Chain of Custody

Work Order No: H256683

Page 3 of 9

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	
Project Number:	2741	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	72 Hours
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)	
Received Intact:	(Yes) No	Thermometer ID:	#140	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	+0.3	
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	2.8	
Total Containers:		Corrected Temperature:	3.1	

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 4500	Hold	Sample Comments
CS-21 (1.5')	7/30/2025		X		C	1		X	X	X		
CS-22 (1.5')	7/30/2025		X		C	1		X	X	X		
CS-23 (1.5')	7/30/2025		X		C	1		X	X	X		
CS-24 (1.5')	7/30/2025		X		C	1		X	X	X		
CS-25 (1.5')	7/30/2025		X		C	1		X	X	X		
CS-26 (1.5')	7/30/2025		X		C	1		X	X	X		
CS-27 (1.5')	7/30/2025		X		C	1		X	X	X		
CS-28 (1.5')	7/30/2025		X		C	1		X	X	X		
CS-29 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-30 (4.25')	7/30/2025		X		C	1		X	X	X		

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas		CARDENAS	7.31.25 1554

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

Chain of Custody

Work Order No: H25L083

Page 4 of 9

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	
Project Number:	2741	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	72 Hours
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)	
Received Intact:	(Yes) No	Thermometer ID:	#140	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	+0.3c	
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	2.8c	
Total Containers:		Corrected Temperature:	3.1c	

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 4500	Hold	Sample Comments
CS-31 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-32 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-33 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-34 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-35 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-36 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-37 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-38 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-39 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-40 (4.25')	7/30/2025		X		C	1		X	X	X		

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas		[signature]	7.31.25 1554

Received by OCD: 9/24/2025 2:47:33 PM

Released to Imaging: 9/25/2025 3:18:41 PM

Page 207 of 540

Page 108 of 112

Chain of Custody

Work Order No: H254683

Page 5 of 9

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	
Project Number:	2741	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	72 Hours
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)	
Received Intact:	(Yes) No	Thermometer ID:	#140	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	+0.3	
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	2.8	
Total Containers:		Corrected Temperature:	3.1	

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Hold	Sample Comments
CS-41 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-42 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-43 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-44 (4.25')	7/30/2025		X		C	1		X	X	X		
CS-45 (4.25')	7/30/2025		X		C	1		X	X	X		
SW-1 (4.25')	7/30/2025		X		C	1		X	X	X		
SW-2 (4.25')	7/30/2025		X		C	1		X	X	X		
SW-3 (4.25')	7/30/2025		X		C	1		X	X	X		
SW-4 (4.25')	7/30/2025		X		C	1		X	X	X		
SW-5 (4.25')	7/30/2025		X		C	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

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas		[signature]	7.31.25/1554

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

Page 208 of 540

Page 109 of 112

Chain of Custody

Work Order No: H254053

Page 6 of 9

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	
Project Number:	2741	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	72 Hours
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Received Intact:	Yes No	Thermometer ID:	#140	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	+0.3	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	2.8 C	
Total Containers:		Corrected Temperature:	3.1	

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 4500	Hold	Sample Comments
SW-6 (4.25')	7/30/2025		X		C	1		X	X	X		
SW-7 (4.25')	7/30/2025		X		C	1		X	X	X		
SW-8 (4.25')	7/30/2025		X		C	1		X	X	X		
SW-9 (4.25')	7/30/2025		X		C	1		X	X	X		
SW-10 (4.25')	7/30/2025		X		C	1		X	X	X		
SW-11 (4.25')	7/30/2025		X		C	1		X	X	X		
SW-12 (4.25')	7/30/2025		X		C	1		X	X	X		
SW-13 (1.5')	7/30/2025		X		C	1		X	X	X		
SW-14 (1.5')	7/30/2025		X		C	1		X	X	X		
SW-15 (1.5')	7/30/2025		X		C	1		X	X	X		

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas		Aparicio	7.31.25/1554

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

Page 209 of 540

Page 110 of 112

Chain of Custody

Work Order No: H254683

Page 7 of 9

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	
Project Number:	2741	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	72 Hours
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)	
Received Intact:	(Yes) No	Thermometer ID:	#140	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	+0.3	
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	2.8	
Total Containers:		Corrected Temperature:	3.1	

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 4500	Hold	Sample Comments
1	SW-16 (1.5')	7/30/2025		X		C	1		X	X	X		
2	SW-17 (1.5')	7/30/2025		X		C	1		X	X	X		
3	SW-18 (1.5'-4.25')	7/30/2025		X		C	1		X	X	X		
4	SW-19 (1.5') *	7/30/2025		X		C	1		X	X	X		
5	SW-20 (4.0') 4.25'	7/30/2025		X		C	1		X	X	X		
6	SW-21 (4.0') 4.25'	7/30/2025		X		C	1		X	X	X		
7	SW-22 (4.0') 4.25'	7/30/2025		X		C	1		X	X	X		
8	SW-23 (4.0') 4.25'	7/30/2025		X		C	1		X	X	X		
9	SW-24 (4.0') 4.25'	7/30/2025		X		C	1		X	X	X		
10	SW-25 (4.0') 4.25'	7/30/2025		X		C	1		X	X	X		

Comments: * Customer requested Depth changes. C.O. - 8/6/25

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas		Aparicio	7/31/25/1554

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

Chain of Custody

Work Order No: H254083

Page 8 of

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfeld St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	
Project Number:	2741	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	72 Hours
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)	
Received Intact:	(Yes) No	Thermometer ID:		#140
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:		+0.3°
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:		2.8°
Total Containers:		Corrected Temperature:		3.1°

Sample Identification *	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Hold	Sample Comments
SW-26 (4.0') 4.25'	7/30/2025		X		C	1	X	X	X		
SW-27 (4.0') 4.25'	7/30/2025		X		C	1	X	X	X		
SW-28 (4.0') 4.25'	7/30/2025		X		C	1	X	X	X		
SW-29 (4.0') 4.25'	7/30/2025		X		C	1	X	X	X		
SW-30 (4.0') 4.25'	7/30/2025		X		C	1	X	X	X		
SW-31 (4.0') 4.25'	7/30/2025		X		C	1	X	X	X		
SW-32 (4.8') 4.25'	7/30/2025		X		C	1	X	X	X		
SW-33 (4.0') 4.25'	7/30/2025		X		C	1	X	X	X		
SW-34 (4.8') 4.25'	7/30/2025		X		C	1	X	X	X		
SW-35 (4.0') 4.25'	7/30/2025		X		C	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

Comments: * Customer requested depth changes. TO - 8/6/25

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas		[signature]	7/31/25 1554

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

Page 211 of 540

Page 112 of 112

Chain of Custody

Work Order No: H25[illegible]83

Page 9 of 9

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	
Project Number:	2741	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	72 Hours
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Received Intact:	(Yes) No	Thermometer ID:	#140
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	+0.3
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	2.8°C
Total Containers:		Corrected Temperature:	3.1°C

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 4500	Hold	Sample Comments
SW-36 (4.0') 4.25'	7/30/2025		X		C	1		X	X	X		
SW-37 (4.0') 4.25'	7/30/2025		X		C	1		X	X	X		
SW-38 (4.0') 4.25'	7/30/2025		X		C	1		X	X	X		
SW-39 (4.0') 4.25'	7/30/2025		X		C	1		X	X	X		
SW-40 (4.25')	7/30/2025		X		C	1		X	X	X		

Parameters

Comments: * Customer requested Depth changes. TO 8/6/25

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas		[signature]	7.31.25/1554

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 08, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: MADURO NORTH FEDERAL 4H

Enclosed are the results of analyses for samples received by the laboratory on 08/05/25 15:39.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/05/2025	Sampling Date:	08/05/2025
Reported:	08/08/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 41 (0.5' - 1.5') (H254776-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2025	ND	1.86	93.2	2.00	4.11	
Toluene*	<0.050	0.050	08/06/2025	ND	1.94	96.8	2.00	3.60	
Ethylbenzene*	<0.050	0.050	08/06/2025	ND	1.94	97.1	2.00	3.37	
Total Xylenes*	<0.150	0.150	08/06/2025	ND	5.74	95.6	6.00	3.56	
Total BTEX	<0.300	0.300	08/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	08/06/2025	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2025	ND	205	102	200	4.36	
DRO >C10-C28*	<10.0	10.0	08/06/2025	ND	215	108	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	08/06/2025	ND					

Surrogate: 1-Chlorooctane *101 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *104 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 215 of 540

Chain of Custody

Work Order No: H254776

Page 1 of 1

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	☐ Routine ☑ Rush
Project Number:	2741	Due Date:	72 Hours
Project Location	Lea County, New Mexico		
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	#140
Cooler Custody Seals:	Yes No N/A	Correction Factor:	+0.3
Sample Custody Seals:	Yes No N/A	Temperature Reading:	3.8 C
Total Containers:		Corrected Temperature:	4.1 C

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 4500	Hold	Sample Comments
SW-41 (0.5'-1.5')	8/5/2025		X		C	1		X	X	X		

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas			8.5.25 1539

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 11, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: MADURO NORTH FEDERAL 4H

Enclosed are the results of analyses for samples received by the laboratory on 08/06/25 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/06/2025	Sampling Date:	08/06/2025
Reported:	08/11/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 46 (4.25') (H254824-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.61	80.5	2.00	15.5	
Toluene*	<0.050	0.050	08/07/2025	ND	1.64	82.0	2.00	15.0	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.64	81.9	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	4.98	83.0	6.00	13.9	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2560**	16.0	08/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	187	93.5	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	190	95.0	200	0.311	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *77.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *76.0 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/06/2025	Sampling Date:	08/06/2025
Reported:	08/11/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 47 (4.25') (H254824-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.61	80.5	2.00	15.5	
Toluene*	<0.050	0.050	08/07/2025	ND	1.64	82.0	2.00	15.0	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.64	81.9	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	4.98	83.0	6.00	13.9	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2840**	16.0	08/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	187	93.5	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	190	95.0	200	0.311	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *89.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *88.6 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/06/2025	Sampling Date:	08/06/2025
Reported:	08/11/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 48 (4.25') (H254824-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.61	80.5	2.00	15.5	
Toluene*	<0.050	0.050	08/07/2025	ND	1.64	82.0	2.00	15.0	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.64	81.9	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	4.98	83.0	6.00	13.9	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2480**	16.0	08/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	187	93.5	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	190	95.0	200	0.311	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *86.8 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *78.9 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/06/2025	Sampling Date:	08/06/2025
Reported:	08/11/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 49 (4.25') (H254824-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.61	80.5	2.00	15.5	
Toluene*	<0.050	0.050	08/07/2025	ND	1.64	82.0	2.00	15.0	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.64	81.9	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	4.98	83.0	6.00	13.9	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3840**	16.0	08/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	187	93.5	200	3.48	
DRO >C10-C28*	**10.6**	10.0	08/11/2025	ND	190	95.0	200	0.311	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *82.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *79.3 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/06/2025	Sampling Date:	08/06/2025
Reported:	08/11/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 50 (4.25') (H254824-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.61	80.5	2.00	15.5	
Toluene*	<0.050	0.050	08/07/2025	ND	1.64	82.0	2.00	15.0	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.64	81.9	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	4.98	83.0	6.00	13.9	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2760**	16.0	08/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	187	93.5	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	190	95.0	200	0.311	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *91.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *85.0 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/06/2025	Sampling Date:	08/06/2025
Reported:	08/11/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 51 (4.25') (H254824-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.61	80.5	2.00	15.5	
Toluene*	<0.050	0.050	08/07/2025	ND	1.64	82.0	2.00	15.0	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.64	81.9	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	4.98	83.0	6.00	13.9	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**27600**	16.0	08/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	187	93.5	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	190	95.0	200	0.311	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *74.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *75.1 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/06/2025	Sampling Date:	08/06/2025
Reported:	08/11/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 52 (4.25') (H254824-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.61	80.5	2.00	15.5	
Toluene*	<0.050	0.050	08/07/2025	ND	1.64	82.0	2.00	15.0	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.64	81.9	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	4.98	83.0	6.00	13.9	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**20000**	16.0	08/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	187	93.5	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	190	95.0	200	0.311	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *62.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *57.2 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/06/2025	Sampling Date:	08/06/2025
Reported:	08/11/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 53 (4.25') (H254824-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.61	80.5	2.00	15.5	
Toluene*	<0.050	0.050	08/07/2025	ND	1.64	82.0	2.00	15.0	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.64	81.9	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	4.98	83.0	6.00	13.9	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**18200**	16.0	08/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	187	93.5	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	190	95.0	200	0.311	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *66.8 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *61.0 %* *40.6-153*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/06/2025	Sampling Date:	08/06/2025
Reported:	08/11/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 54 (4.25') (H254824-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.61	80.5	2.00	15.5	
Toluene*	<0.050	0.050	08/07/2025	ND	1.64	82.0	2.00	15.0	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.64	81.9	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	4.98	83.0	6.00	13.9	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**20400**	16.0	08/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	187	93.5	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	190	95.0	200	0.311	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *72.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *68.1 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/06/2025	Sampling Date:	08/06/2025
Reported:	08/11/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 55 (4.25') (H254824-10)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.61	80.5	2.00	15.5	
Toluene*	<0.050	0.050	08/07/2025	ND	1.64	82.0	2.00	15.0	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.64	81.9	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	4.98	83.0	6.00	13.9	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**17800**	16.0	08/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	187	93.5	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	190	95.0	200	0.311	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *67.8 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *63.8 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/06/2025	Sampling Date:	08/06/2025
Reported:	08/11/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 56 (4.25') (H254824-11)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2025	ND	1.61	80.5	2.00	15.5	
Toluene*	<0.050	0.050	08/08/2025	ND	1.64	82.0	2.00	15.0	
Ethylbenzene*	<0.050	0.050	08/08/2025	ND	1.64	81.9	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/08/2025	ND	4.98	83.0	6.00	13.9	
Total BTEX	<0.300	0.300	08/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**18200**	16.0	08/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	187	93.5	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	190	95.0	200	0.311	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *78.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *73.3 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/06/2025	Sampling Date:	08/06/2025
Reported:	08/11/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 42 (4.25') (H254824-12)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.61	80.5	2.00	15.5	
Toluene*	<0.050	0.050	08/07/2025	ND	1.64	82.0	2.00	15.0	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.64	81.9	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	4.98	83.0	6.00	13.9	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	187	93.5	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	190	95.0	200	0.311	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *78.8 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *73.1 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/06/2025	Sampling Date:	08/06/2025
Reported:	08/11/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 43 (4.25') (H254824-13)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.61	80.5	2.00	15.5	
Toluene*	<0.050	0.050	08/07/2025	ND	1.64	82.0	2.00	15.0	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.64	81.9	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	4.98	83.0	6.00	13.9	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	187	93.5	200	3.48	
DRO >C10-C28*	**11.2**	10.0	08/11/2025	ND	190	95.0	200	0.311	
EXT DRO >C28-C36	**11.4**	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *87.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *83.4 %* *40.6-153*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/06/2025	Sampling Date:	08/06/2025
Reported:	08/11/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 44 (4.25') (H254824-14)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.61	80.5	2.00	15.5	
Toluene*	<0.050	0.050	08/07/2025	ND	1.64	82.0	2.00	15.0	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.64	81.9	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	4.98	83.0	6.00	13.9	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	187	93.5	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	190	95.0	200	0.311	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *66.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *62.0 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/06/2025	Sampling Date:	08/06/2025
Reported:	08/11/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 45 (4.25') (H254824-15)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.61	80.5	2.00	15.5	
Toluene*	<0.050	0.050	08/07/2025	ND	1.64	82.0	2.00	15.0	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.64	81.9	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	4.98	83.0	6.00	13.9	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	187	93.5	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	190	95.0	200	0.311	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *75.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *76.2 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/06/2025	Sampling Date:	08/06/2025
Reported:	08/11/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 46 (4.25') (H254824-16)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.61	80.5	2.00	15.5	
Toluene*	<0.050	0.050	08/07/2025	ND	1.64	82.0	2.00	15.0	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.64	81.9	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	4.98	83.0	6.00	13.9	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	187	93.5	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	190	95.0	200	0.311	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *77.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *75.6 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/06/2025	Sampling Date:	08/06/2025
Reported:	08/11/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 47 (4.25') (H254824-17)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.61	80.5	2.00	15.5	
Toluene*	<0.050	0.050	08/07/2025	ND	1.64	82.0	2.00	15.0	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.64	81.9	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	4.98	83.0	6.00	13.9	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	187	93.5	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	190	95.0	200	0.311	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *78.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *75.6 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/06/2025	Sampling Date:	08/06/2025
Reported:	08/11/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 48 (4.25') (H254824-18)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.61	80.5	2.00	15.5	
Toluene*	<0.050	0.050	08/07/2025	ND	1.64	82.0	2.00	15.0	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.64	81.9	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	4.98	83.0	6.00	13.9	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	187	93.5	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	190	95.0	200	0.311	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *74.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *71.1 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/06/2025	Sampling Date:	08/06/2025
Reported:	08/11/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 49 (4.25') (H254824-19)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.61	80.5	2.00	15.5	
Toluene*	<0.050	0.050	08/07/2025	ND	1.64	82.0	2.00	15.0	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.64	81.9	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	4.98	83.0	6.00	13.9	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	187	93.5	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	190	95.0	200	0.311	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *71.7 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *70.7 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/06/2025	Sampling Date:	08/06/2025
Reported:	08/11/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 50 (4.25') (H254824-20)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2025	ND	1.61	80.5	2.00	15.5	
Toluene*	<0.050	0.050	08/07/2025	ND	1.64	82.0	2.00	15.0	
Ethylbenzene*	<0.050	0.050	08/07/2025	ND	1.64	81.9	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/07/2025	ND	4.98	83.0	6.00	13.9	
Total BTEX	<0.300	0.300	08/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/07/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	187	93.5	200	3.48	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	190	95.0	200	0.311	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *71.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *70.2 %* *40.6-153*

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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H254824

Page 1 of 2

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	☐ Routine ☑ Rush
Project Number:	2741	Due Date:	72 Hours
Project Location	Lea County, New Mexico		
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Received Intact:	(Yes) No	Thermometer ID:	#140
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	+0.3°C
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.9°C
Total Containers:		Corrected Temperature:	5.2°C

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 4500	Hold	Sample Comments
CS-46 (4.25')	8/6/2025		X		C	1		X	X	X		1
CS-47 (4.25')	8/6/2025		X		C	1		X	X	X		2
CS-48 (4.25')	8/6/2025		X		C	1		X	X	X		3
CS-49 (4.25')	8/6/2025		X		C	1		X	X	X		4
CS-50 (4.25')	8/6/2025		X		C	1		X	X	X		5
CS-51 (4.25')	8/6/2025		X		C	1		X	X	X		6
CS-52 (4.25')	8/6/2025		X		C	1		X	X	X		7
CS-53 (4.25')	8/6/2025		X		C	1		X	X	X		8
CS-54 (4.25')	8/6/2025		X		C	1		X	X	X		9
CS-55 (4.25')	8/6/2025		X		C	1		X	X	X		10

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas	8.6.25 1425	Tamara Oldaker	

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

Chain of Custody

Work Order No: H254824

Page 2 of 2

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	☐ Routine ☑ Rush
Project Number:	2741	Due Date:	72 Hours
Project Location	Lea County, New Mexico		
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Received Intact:	(Yes) No	Thermometer ID:	#140
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	+0.3c
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.9c
Total Containers:		Corrected Temperature:	5.2c

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 4500	Hold	Sample Comments
CS-56 (4.25')	8/6/2025		X		C	1		X	X	X		11
SW-42 (4.25')	8/6/2025		X		C	1		X	X	X		12
SW-43 (4.25')	8/6/2025		X		C	1		X	X	X		13
SW-44 (4.25')	8/6/2025		X		C	1		X	X	X		14
SW-45 (4.25')	8/6/2025		X		C	1		X	X	X		15
SW-46 (4.25')	8/6/2025		X		C	1		X	X	X		16
SW-47 (4.25')	8/6/2025		X		C	1		X	X	X		17
SW-48 (4.25')	8/6/2025		X		C	1		X	X	X		18
SW-49 (4.25')	8/6/2025		X		C	1		X	X	X		19
SW-50 (4.25')	8/6/2025		X		C	1		X	X	X		20

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas	8-6-25 1425		

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 13, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: MADURO NORTH FEDERAL 4H

Enclosed are the results of analyses for samples received by the laboratory on 08/08/25 16:04.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 57 (4.25') (H254901-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.80	89.8	2.00	0.152	
Toluene*	<0.050	0.050	08/11/2025	ND	1.86	93.2	2.00	0.599	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.85	92.7	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.51	91.9	6.00	1.23	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4400**	16.0	08/11/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	223	112	200	2.81	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	218	109	200	4.32	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *95.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *96.5 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 58 (4.25') (H254901-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.80	89.8	2.00	0.152	
Toluene*	<0.050	0.050	08/11/2025	ND	1.86	93.2	2.00	0.599	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.85	92.7	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.51	91.9	6.00	1.23	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**6480**	16.0	08/11/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	223	112	200	2.81	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	218	109	200	4.32	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *92.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *89.4 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 59 (4.25') (H254901-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.80	89.8	2.00	0.152	
Toluene*	<0.050	0.050	08/11/2025	ND	1.86	93.2	2.00	0.599	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.85	92.7	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.51	91.9	6.00	1.23	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5360**	16.0	08/11/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	223	112	200	2.81	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	218	109	200	4.32	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *94.8 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *91.0 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 60 (4.25') (H254901-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.80	89.8	2.00	0.152	
Toluene*	<0.050	0.050	08/11/2025	ND	1.86	93.2	2.00	0.599	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.85	92.7	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.51	91.9	6.00	1.23	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**6640**	16.0	08/11/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	223	112	200	2.81	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	218	109	200	4.32	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *100 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *94.9 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 61 (4.25') (H254901-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.80	89.8	2.00	0.152	
Toluene*	<0.050	0.050	08/11/2025	ND	1.86	93.2	2.00	0.599	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.85	92.7	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.51	91.9	6.00	1.23	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**8080**	16.0	08/11/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	223	112	200	2.81	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	218	109	200	4.32	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *102 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *97.9 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 62 (4.25') (H254901-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.80	89.8	2.00	0.152	
Toluene*	<0.050	0.050	08/11/2025	ND	1.86	93.2	2.00	0.599	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.85	92.7	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.51	91.9	6.00	1.23	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.0 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**6960**	16.0	08/11/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	223	112	200	2.81	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	218	109	200	4.32	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *103 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *99.7 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 63 (4.25') (H254901-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.80	89.8	2.00	0.152	
Toluene*	<0.050	0.050	08/11/2025	ND	1.86	93.2	2.00	0.599	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.85	92.7	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.51	91.9	6.00	1.23	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**8080**	16.0	08/11/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	223	112	200	2.81	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	218	109	200	4.32	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *98.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *94.8 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 64 (4.25') (H254901-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.80	89.8	2.00	0.152	
Toluene*	<0.050	0.050	08/11/2025	ND	1.86	93.2	2.00	0.599	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.85	92.7	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.51	91.9	6.00	1.23	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**15200**	16.0	08/11/2025	ND	416	104	400	3.77	QM-07

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	223	112	200	2.81	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	218	109	200	4.32	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *101 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *98.4 %* *40.6-153*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 65 (4.25') (H254901-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.80	89.8	2.00	0.152	
Toluene*	<0.050	0.050	08/11/2025	ND	1.86	93.2	2.00	0.599	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.85	92.7	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.51	91.9	6.00	1.23	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**12400**	16.0	08/11/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	223	112	200	2.81	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	218	109	200	4.32	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *101 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *98.7 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 66 (4.25') (H254901-10)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.80	89.8	2.00	0.152	
Toluene*	<0.050	0.050	08/11/2025	ND	1.86	93.2	2.00	0.599	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.85	92.7	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.51	91.9	6.00	1.23	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.5 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**13800**	16.0	08/11/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	197	98.5	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	220	110	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *88.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *82.1 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 67 (4.25') (H254901-11)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.80	89.8	2.00	0.152	
Toluene*	<0.050	0.050	08/11/2025	ND	1.86	93.2	2.00	0.599	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.85	92.7	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.51	91.9	6.00	1.23	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**10200**	16.0	08/11/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	197	98.5	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	220	110	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *82.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *78.7 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 68 (4.25') (H254901-12)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.80	89.8	2.00	0.152	
Toluene*	<0.050	0.050	08/11/2025	ND	1.86	93.2	2.00	0.599	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.85	92.7	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.51	91.9	6.00	1.23	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**10500**	16.0	08/11/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	197	98.5	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	220	110	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *86.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *84.3 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 69 (4.25') (H254901-13)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.80	89.8	2.00	0.152	
Toluene*	<0.050	0.050	08/11/2025	ND	1.86	93.2	2.00	0.599	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.85	92.7	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.51	91.9	6.00	1.23	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**9460**	16.0	08/11/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	197	98.5	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	220	110	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *91.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *87.8 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 70 (4.25') (H254901-14)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.80	89.8	2.00	0.152	
Toluene*	<0.050	0.050	08/11/2025	ND	1.86	93.2	2.00	0.599	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.85	92.7	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.51	91.9	6.00	1.23	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**7860**	16.0	08/11/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	197	98.5	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	220	110	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *84.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *81.6 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 71 (4.25') (H254901-15)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.80	89.8	2.00	0.152	
Toluene*	<0.050	0.050	08/11/2025	ND	1.86	93.2	2.00	0.599	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.85	92.7	2.00	1.26	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.51	91.9	6.00	1.23	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**8260**	16.0	08/11/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	197	98.5	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	220	110	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *83.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *80.2 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 72 (4.25') (H254901-16)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.84	92.0	2.00	3.23	
Toluene*	<0.050	0.050	08/11/2025	ND	1.90	95.2	2.00	1.64	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.91	95.5	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.75	95.9	6.00	2.40	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5040**	16.0	08/11/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	197	98.5	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	220	110	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *89.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *85.7 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 51 (4.25') (H254901-17)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.84	92.0	2.00	3.23	
Toluene*	<0.050	0.050	08/11/2025	ND	1.90	95.2	2.00	1.64	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.91	95.5	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.75	95.9	6.00	2.40	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**608**	16.0	08/11/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	197	98.5	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	220	110	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *88.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *85.5 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 52 (4.25') (H254901-18)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.84	92.0	2.00	3.23	
Toluene*	<0.050	0.050	08/11/2025	ND	1.90	95.2	2.00	1.64	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.91	95.5	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.75	95.9	6.00	2.40	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**688**	16.0	08/11/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	197	98.5	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	220	110	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *85.7 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *81.6 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 53 (4.25') (H254901-19)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.84	92.0	2.00	3.23	
Toluene*	<0.050	0.050	08/11/2025	ND	1.90	95.2	2.00	1.64	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.91	95.5	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.75	95.9	6.00	2.40	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**624**	16.0	08/11/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	197	98.5	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	220	110	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *88.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *83.1 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 54 (4.25') (H254901-20)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.84	92.0	2.00	3.23	
Toluene*	<0.050	0.050	08/11/2025	ND	1.90	95.2	2.00	1.64	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.91	95.5	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.75	95.9	6.00	2.40	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**576**	16.0	08/11/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	197	98.5	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	220	110	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *92.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *87.5 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 55 (4.25') (H254901-21)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.84	92.0	2.00	3.23	
Toluene*	<0.050	0.050	08/11/2025	ND	1.90	95.2	2.00	1.64	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.91	95.5	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.75	95.9	6.00	2.40	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**608**	16.0	08/11/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	197	98.5	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	220	110	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *77.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *72.3 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 56 (4.25') (H254901-22)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.84	92.0	2.00	3.23	
Toluene*	<0.050	0.050	08/11/2025	ND	1.90	95.2	2.00	1.64	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.91	95.5	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.75	95.9	6.00	2.40	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**624**	16.0	08/11/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	197	98.5	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	220	110	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *84.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *76.9 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 57 (4.25') (H254901-23)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.84	92.0	2.00	3.23	
Toluene*	<0.050	0.050	08/11/2025	ND	1.90	95.2	2.00	1.64	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.91	95.5	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.75	95.9	6.00	2.40	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**688**	16.0	08/11/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	197	98.5	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	220	110	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *86.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *83.7 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 58 (4.25') (H254901-24)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.84	92.0	2.00	3.23	
Toluene*	<0.050	0.050	08/11/2025	ND	1.90	95.2	2.00	1.64	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.91	95.5	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.75	95.9	6.00	2.40	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**720**	16.0	08/11/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	197	98.5	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	220	110	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *89.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *84.5 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 59 (4.25') (H254901-25)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.84	92.0	2.00	3.23	
Toluene*	<0.050	0.050	08/11/2025	ND	1.90	95.2	2.00	1.64	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.91	95.5	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.75	95.9	6.00	2.40	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**576**	16.0	08/11/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	197	98.5	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	220	110	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *91.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *88.0 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 60 (4.25') (H254901-26)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.84	92.0	2.00	3.23	
Toluene*	<0.050	0.050	08/11/2025	ND	1.90	95.2	2.00	1.64	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.91	95.5	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.75	95.9	6.00	2.40	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**624**	16.0	08/11/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	197	98.5	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	220	110	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *85.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *81.2 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 61 (4.25') (H254901-27)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.84	92.0	2.00	3.23	
Toluene*	<0.050	0.050	08/11/2025	ND	1.90	95.2	2.00	1.64	
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.91	95.5	2.00	2.09	
Total Xylenes*	<0.150	0.150	08/11/2025	ND	5.75	95.9	6.00	2.40	
Total BTEX	<0.300	0.300	08/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**656**	16.0	08/11/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/11/2025	ND	197	98.5	200	1.35	
DRO >C10-C28*	<10.0	10.0	08/11/2025	ND	220	110	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *80.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *77.2 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 62 (4.25') (H254901-28)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.84	92.0	2.00	3.23	
Toluene*	<0.050	0.050	08/11/2025	ND	1.90	95.2	2.00	1.64	GC-NC
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.91	95.5	2.00	2.09	GC-NC
Total Xylenes*	**0.742**	0.150	08/11/2025	ND	5.75	95.9	6.00	2.40	GC-NC1
Total BTEX	**0.742**	0.300	08/11/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *129 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4640**	16.0	08/11/2025	ND	432	108	400	3.77	QM-07

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**103**	10.0	08/11/2025	ND	197	98.5	200	1.35	
DRO >C10-C28*	**2520**	10.0	08/11/2025	ND	220	110	200	2.69	
EXT DRO >C28-C36	**386**	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *110 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *155 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 63 (4.25') (H254901-29)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.84	92.0	2.00	3.23	
Toluene*	<0.050	0.050	08/11/2025	ND	1.90	95.2	2.00	1.64	GC-NC
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.91	95.5	2.00	2.09	GC-NC
Total Xylenes*	**0.642**	0.150	08/11/2025	ND	5.75	95.9	6.00	2.40	GC-NC1
Total BTEX	**0.642**	0.300	08/11/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *127 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5680**	16.0	08/11/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**114**	10.0	08/11/2025	ND	197	98.5	200	1.35	
DRO >C10-C28*	**2450**	10.0	08/11/2025	ND	220	110	200	2.69	
EXT DRO >C28-C36	**391**	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *117 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *174 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 64 (4.25') (H254901-30)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.84	92.0	2.00	3.23	
Toluene*	<0.050	0.050	08/11/2025	ND	1.90	95.2	2.00	1.64	GC-NC
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.91	95.5	2.00	2.09	GC-NC
Total Xylenes*	**0.859**	0.150	08/11/2025	ND	5.75	95.9	6.00	2.40	GC-NC1
Total BTEX	**0.859**	0.300	08/11/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *129 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5280**	16.0	08/11/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**149**	10.0	08/11/2025	ND	211	106	200	2.81	
DRO >C10-C28*	**2960**	10.0	08/11/2025	ND	215	107	200	7.78	QM-07, QR-03
EXT DRO >C28-C36	**488**	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *109 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *165 %* *40.6-153*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 65 (4.25') (H254901-31)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.84	92.0	2.00	3.23	
Toluene*	<0.050	0.050	08/11/2025	ND	1.90	95.2	2.00	1.64	GC-NC
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.91	95.5	2.00	2.09	GC-NC
Total Xylenes*	**1.21**	0.150	08/11/2025	ND	5.75	95.9	6.00	2.40	GC-NC1
Total BTEX	**1.21**	0.300	08/11/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *135 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5200**	16.0	08/11/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**246**	10.0	08/11/2025	ND	211	106	200	2.81	
DRO >C10-C28*	**4180**	10.0	08/11/2025	ND	215	107	200	7.78	
EXT DRO >C28-C36	**637**	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *116 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *196 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 66 (4.25') (H254901-32)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.84	92.0	2.00	3.23	
Toluene*	<0.050	0.050	08/11/2025	ND	1.90	95.2	2.00	1.64	GC-NC
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.91	95.5	2.00	2.09	GC-NC
Total Xylenes*	**2.58**	0.150	08/11/2025	ND	5.75	95.9	6.00	2.40	GC-NC1
Total BTEX	**2.58**	0.300	08/11/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *163 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4080**	16.0	08/11/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**240**	10.0	08/11/2025	ND	211	106	200	2.81	
DRO >C10-C28*	**3550**	10.0	08/11/2025	ND	215	107	200	7.78	
EXT DRO >C28-C36	**568**	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *121 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *179 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 67 (4.25') (H254901-33)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.84	92.0	2.00	3.23	
Toluene*	<0.050	0.050	08/11/2025	ND	1.90	95.2	2.00	1.64	GC-NC
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.91	95.5	2.00	2.09	GC-NC
Total Xylenes*	**2.16**	0.150	08/11/2025	ND	5.75	95.9	6.00	2.40	GC-NC1
Total BTEX	**2.16**	0.300	08/11/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *155 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3840**	16.0	08/11/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**227**	10.0	08/11/2025	ND	211	106	200	2.81	
DRO >C10-C28*	**3650**	10.0	08/11/2025	ND	215	107	200	7.78	
EXT DRO >C28-C36	**564**	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *121 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *185 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 68 (4.25') (H254901-34)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.84	92.0	2.00	3.23	
Toluene*	<0.050	0.050	08/11/2025	ND	1.90	95.2	2.00	1.64	GC-NC
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.91	95.5	2.00	2.09	GC-NC
Total Xylenes*	**1.34**	0.150	08/11/2025	ND	5.75	95.9	6.00	2.40	GC-NC1
Total BTEX	**1.34**	0.300	08/11/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *137 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4560**	16.0	08/11/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**228**	10.0	08/11/2025	ND	211	106	200	2.81	
DRO >C10-C28*	**4360**	10.0	08/11/2025	ND	215	107	200	7.78	
EXT DRO >C28-C36	**619**	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *126 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *209 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/08/2025	Sampling Date:	08/08/2025
Reported:	08/13/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 69 (4.25') (H254901-35)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2025	ND	1.84	92.0	2.00	3.23	
Toluene*	<0.050	0.050	08/11/2025	ND	1.90	95.2	2.00	1.64	GC-NC
Ethylbenzene*	<0.050	0.050	08/11/2025	ND	1.91	95.5	2.00	2.09	GC-NC
Total Xylenes*	**0.567**	0.150	08/11/2025	ND	5.75	95.9	6.00	2.40	GC-NC1
Total BTEX	**0.567**	0.300	08/11/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *125 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5440**	16.0	08/11/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**90.1**	10.0	08/11/2025	ND	211	106	200	2.81	
DRO >C10-C28*	**2000**	10.0	08/11/2025	ND	215	107	200	7.78	
EXT DRO >C28-C36	**313**	10.0	08/11/2025	ND					

Surrogate: 1-Chlorooctane *118 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *153 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Page 277 of 540

Chain of Custody

Work Order No: H254901

Page 1 of 4

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	
Project Number:	2741	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	72 Hours
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Received Intact:	Yes No	Thermometer ID:	#140	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	+0.3c	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.6c	
Total Containers:		Corrected Temperature:	4.9c	

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Hold	Sample Comments
CS-57 (4.25')	8/8/2025		X		C	1		X	X	X		
CS-58 (4.25')	8/8/2025		X		C	1		X	X	X		
CS-59 (4.25')	8/8/2025		X		C	1		X	X	X		
CS-60 (4.25')	8/8/2025		X		C	1		X	X	X		
CS-61 (4.25')	8/8/2025		X		C	1		X	X	X		
CS-62 (4.25')	8/8/2025		X		C	1		X	X	X		
CS-63 (4.25')	8/8/2025		X		C	1		X	X	X		
CS-64 (4.25')	8/8/2025		X		C	1		X	X	X		
CS-65 (4.25')	8/8/2025		X		C	1		X	X	X		
CS-66 (4.25')	8/8/2025		X		C	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

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Tabitha Vargas	8-8-25 1604	Tamara Latshaw	

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

Page 278 of 540

Chain of Custody

Work Order No: H254901

Page 2 of 4

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	
Project Number:	2741	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	72 Hours
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Received Intact:	Yes No	Thermometer ID:	#140	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	+0.3°	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.6°	
Total Containers:		Corrected Temperature:	4.9°	

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 4500	Hold	Sample Comments
CS-67 (4.25')	8/8/2025		X		C	1		X	X	X		
CS-68 (4.25')	8/8/2025		X		C	1		X	X	X		
CS-69 (4.25')	8/8/2025		X		C	1		X	X	X		
CS-70 (4.25')	8/8/2025		X		C	1		X	X	X		
CS-71 (4.25')	8/8/2025		X		C	1		X	X	X		
CS-72 (4.25')	8/8/2025		X		C	1		X	X	X		
SW-51 (4.25')	8/8/2025		X		C	1		X	X	X		
SW-52 (4.25')	8/8/2025		X		C	1		X	X	X		
SW-53 (4.25')	8/8/2025		X		C	1		X	X	X		
SW-54 (4.25')	8/8/2025		X		C	1		X	X	X		

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas	8-8-25 1104	Tamara Latshaw	

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

Page 279 of 540

Chain of Custody

Work Order No: H254901

Page 3 of 4

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	
Project Number:	2741	☐ Routine	☑ Rush
Project Location:	Lea County, New Mexico	Due Date:	72 Hours
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	#140
Cooler Custody Seals:	Yes No N/A	Correction Factor:	+0.3c
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.6c
Total Containers:		Corrected Temperature:	4.9c

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Hold
SW-55 (4.25')	8/8/2025		X		C	1		X	X	X	
SW-56 (4.25')	8/8/2025		X		C	1		X	X	X	
SW-57 (4.25')	8/8/2025		X		C	1		X	X	X	
SW-58 (4.25')	8/8/2025		X		C	1		X	X	X	
SW-59 (4.25')	8/8/2025		X		C	1		X	X	X	
SW-60 (4.25')	8/8/2025		X		C	1		X	X	X	
SW-61 (4.25')	8/8/2025		X		C	1		X	X	X	
SW-62 (4.25')	8/8/2025		X		C	1		X	X	X	
SW-63 (4.25')	8/8/2025		X		C	1		X	X	X	
SW-64 (4.25')	8/8/2025		X		C	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:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas	8-8-25 1604	Jessica Kindrick	

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

Page 280 of 540

Chain of Custody

Work Order No: H254900

Page 4 of 4

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	
Project Number:	2741	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	72 Hours
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Received Intact:	Yes No	Thermometer ID:	#140	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	+0.3c	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.6c	
Total Containers:		Corrected Temperature:	4.9c	

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Hold	Sample Comments
SW-65 (4.25')	8/8/2025		X		C	1		X	X	X		
SW-66 (4.25')	8/8/2025		X		C	1		X	X	X		
SW-67 (4.25')	8/8/2025		X		C	1		X	X	X		
SW-68 (4.25')	8/8/2025		X		C	1		X	X	X		
SW-69 (4.25')	8/8/2025		X		C	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

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas	8-8-25 1104	Tamara Hebert	

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 15, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: MADURO NORTH FEDERAL 4H

Enclosed are the results of analyses for samples received by the laboratory on 08/12/25 12:54.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/12/2025	Sampling Date:	08/12/2025
Reported:	08/15/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 51 (4.5') (H254967-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	16.7	
Toluene*	<0.050	0.050	08/13/2025	ND	1.96	98.1	2.00	8.32	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.03	102	2.00	4.45	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.46	108	6.00	4.17	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3080**	16.0	08/13/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	184	92.0	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	178	88.9	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane *76.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *71.2 %* *40.6-153*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/12/2025	Sampling Date:	08/12/2025
Reported:	08/15/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 52 (4.5') (H254967-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	16.7	
Toluene*	<0.050	0.050	08/13/2025	ND	1.96	98.1	2.00	8.32	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.03	102	2.00	4.45	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.46	108	6.00	4.17	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2320**	16.0	08/13/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	184	92.0	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	178	88.9	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane *77.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *69.9 %* *40.6-153*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/12/2025	Sampling Date:	08/12/2025
Reported:	08/15/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 54 (4.5') (H254967-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	16.7	
Toluene*	<0.050	0.050	08/13/2025	ND	1.96	98.1	2.00	8.32	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.03	102	2.00	4.45	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.46	108	6.00	4.17	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2240**	16.0	08/13/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	184	92.0	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	178	88.9	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane *69.7 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *63.3 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/12/2025	Sampling Date:	08/12/2025
Reported:	08/15/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 73 (4.25') (H254967-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	16.7	
Toluene*	<0.050	0.050	08/13/2025	ND	1.96	98.1	2.00	8.32	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.03	102	2.00	4.45	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.46	108	6.00	4.17	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**6960**	16.0	08/13/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	184	92.0	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	178	88.9	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane *75.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *67.8 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/12/2025	Sampling Date:	08/12/2025
Reported:	08/15/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 74 (4.25') (H254967-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	16.7	
Toluene*	<0.050	0.050	08/13/2025	ND	1.96	98.1	2.00	8.32	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.03	102	2.00	4.45	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.46	108	6.00	4.17	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**6000**	16.0	08/13/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	184	92.0	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	178	88.9	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane *75.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *67.4 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/12/2025	Sampling Date:	08/12/2025
Reported:	08/15/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 75 (4.25') (H254967-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	16.7	
Toluene*	<0.050	0.050	08/13/2025	ND	1.96	98.1	2.00	8.32	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.03	102	2.00	4.45	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.46	108	6.00	4.17	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5280**	16.0	08/13/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	184	92.0	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	178	88.9	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane *73.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *67.2 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/12/2025	Sampling Date:	08/12/2025
Reported:	08/15/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 76 (4.25') (H254967-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	16.7	
Toluene*	<0.050	0.050	08/13/2025	ND	1.96	98.1	2.00	8.32	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.03	102	2.00	4.45	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.46	108	6.00	4.17	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5680**	16.0	08/13/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	184	92.0	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	178	88.9	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane *71.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *64.0 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/12/2025	Sampling Date:	08/12/2025
Reported:	08/15/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 77 (4.25') (H254967-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	16.7	
Toluene*	<0.050	0.050	08/13/2025	ND	1.96	98.1	2.00	8.32	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.03	102	2.00	4.45	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.46	108	6.00	4.17	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**7600**	16.0	08/13/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	184	92.0	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	178	88.9	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane *73.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *68.4 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/12/2025	Sampling Date:	08/12/2025
Reported:	08/15/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 78 (4.25') (H254967-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	16.7	
Toluene*	<0.050	0.050	08/13/2025	ND	1.96	98.1	2.00	8.32	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.03	102	2.00	4.45	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.46	108	6.00	4.17	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**7040**	16.0	08/13/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	184	92.0	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	178	88.9	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane *77.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *69.5 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/12/2025	Sampling Date:	08/12/2025
Reported:	08/15/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 79 (4.25') (H254967-10)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	16.7	
Toluene*	<0.050	0.050	08/13/2025	ND	1.96	98.1	2.00	8.32	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.03	102	2.00	4.45	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.46	108	6.00	4.17	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**6240**	16.0	08/13/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	184	92.0	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	178	88.9	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane *76.7 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *69.7 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/12/2025	Sampling Date:	08/12/2025
Reported:	08/15/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 80 (4.25') (H254967-11)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	16.7	
Toluene*	<0.050	0.050	08/13/2025	ND	1.96	98.1	2.00	8.32	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.03	102	2.00	4.45	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.46	108	6.00	4.17	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**7520**	16.0	08/13/2025	ND	416	104	400	3.77	QM-07

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	184	92.0	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	178	88.9	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane *64.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *58.6 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/12/2025	Sampling Date:	08/12/2025
Reported:	08/15/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 81 (4.25') (H254967-12)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	16.7	
Toluene*	<0.050	0.050	08/13/2025	ND	1.96	98.1	2.00	8.32	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.03	102	2.00	4.45	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.46	108	6.00	4.17	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5600**	16.0	08/13/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	184	92.0	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	178	88.9	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane *71.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *64.8 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/12/2025	Sampling Date:	08/12/2025
Reported:	08/15/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 82 (4.25') (H254967-13)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	16.7	
Toluene*	<0.050	0.050	08/13/2025	ND	1.96	98.1	2.00	8.32	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.03	102	2.00	4.45	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.46	108	6.00	4.17	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5600**	16.0	08/13/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	184	92.0	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	178	88.9	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane *67.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *61.0 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/12/2025	Sampling Date:	08/12/2025
Reported:	08/15/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 70 (4.25') (H254967-14)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	16.7	
Toluene*	<0.050	0.050	08/13/2025	ND	1.96	98.1	2.00	8.32	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.03	102	2.00	4.45	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.46	108	6.00	4.17	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/13/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	184	92.0	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	178	88.9	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane *71.7 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *63.4 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/12/2025	Sampling Date:	08/12/2025
Reported:	08/15/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 71 (4.25') (H254967-15)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	16.7	
Toluene*	<0.050	0.050	08/13/2025	ND	1.96	98.1	2.00	8.32	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.03	102	2.00	4.45	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.46	108	6.00	4.17	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/13/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	184	92.0	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	178	88.9	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane *68.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *60.2 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/12/2025	Sampling Date:	08/12/2025
Reported:	08/15/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 72 (4.25') (H254967-16)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	16.7	
Toluene*	<0.050	0.050	08/13/2025	ND	1.96	98.1	2.00	8.32	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.03	102	2.00	4.45	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.46	108	6.00	4.17	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/13/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	184	92.0	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	178	88.9	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane *69.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *63.0 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/12/2025	Sampling Date:	08/12/2025
Reported:	08/15/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 73 (4.25') (H254967-17)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	16.7	
Toluene*	<0.050	0.050	08/13/2025	ND	1.96	98.1	2.00	8.32	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.03	102	2.00	4.45	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.46	108	6.00	4.17	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/13/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	184	92.0	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	178	88.9	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane *67.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *61.3 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/12/2025	Sampling Date:	08/12/2025
Reported:	08/15/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 74 (4.25') (H254967-18)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	16.7	
Toluene*	<0.050	0.050	08/13/2025	ND	1.96	98.1	2.00	8.32	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.03	102	2.00	4.45	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.46	108	6.00	4.17	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/13/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	184	92.0	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	178	88.9	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane *74.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *64.3 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/12/2025	Sampling Date:	08/12/2025
Reported:	08/15/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 75 (4.25') (H254967-19)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	16.7	
Toluene*	<0.050	0.050	08/13/2025	ND	1.96	98.1	2.00	8.32	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.03	102	2.00	4.45	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.46	108	6.00	4.17	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/13/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	184	92.0	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	178	88.9	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane *67.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *58.8 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/12/2025	Sampling Date:	08/12/2025
Reported:	08/15/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Shalyn Rodriguez
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 76 (4.25') (H254967-20)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2025	ND	1.87	93.3	2.00	16.7	
Toluene*	<0.050	0.050	08/13/2025	ND	1.96	98.1	2.00	8.32	
Ethylbenzene*	<0.050	0.050	08/13/2025	ND	2.03	102	2.00	4.45	
Total Xylenes*	<0.150	0.150	08/13/2025	ND	6.46	108	6.00	4.17	
Total BTEX	<0.300	0.300	08/13/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/13/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2025	ND	184	92.0	200	1.34	
DRO >C10-C28*	<10.0	10.0	08/13/2025	ND	178	88.9	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	08/13/2025	ND					

Surrogate: 1-Chlorooctane *76.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *67.9 %* *40.6-153*

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 303 of 540

Page 23 of 24

Chain of Custody

Work Order No: H254967

Page 1 of 2

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Maduro North Federal 4H	Turn Around	
Project Number:	2741	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	72 Hours
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)	
Received Intact:	(Yes) No	Thermometer ID:	140	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	+0.3	
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	3.1	
Total Containers:		Corrected Temperature:	3.4	

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Hold	Sample Comments
CS-51 (4.5')	8/12/2025		X		C	1		X	X	X		1
CS-52 (4.5')	8/12/2025		X		C	1		X	X	X		2
CS-54 (4.5')	8/12/2025		X		C	1		X	X	X		3
CS-73 (4.25')	8/12/2025		X		C	1		X	X	X		4
CS-74 (4.25')	8/12/2025		X		C	1		X	X	X		5
CS-75 (4.25')	8/12/2025		X		C	1		X	X	X		6
CS-76 (4.25')	8/12/2025		X		C	1		X	X	X		7
CS-77 (4.25')	8/12/2025		X		C	1		X	X	X		8
CS-78 (4.25')	8/12/2025		X		C	1		X	X	X		9
CS-79 (4.25')	8/12/2025		X		C	1		X	X	X		10

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

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas	81225 1254	S Rodriguez	

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

Page 304 of 540

Chain of Custody

Work Order No: H254967

Page 2 of 2

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	☐ Routine ☑ Rush
Project Number:	2741	Due Date:	72 Hours
Project Location	Lea County, New Mexico		
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)	
Received Intact:	(Yes) No	Thermometer ID:	140	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	+0.3	
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	3.1	
Total Containers:		Corrected Temperature:	3.4	

ANALYSIS REQUEST

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Hold	Sample Comments
CS-80 (4.25')	8/12/2025		X		C	1		X	X	X		11
CS-81 (4.25')	8/12/2025		X		C	1		X	X	X		12
CS-82 (4.25')	8/12/2025		X		C	1		X	X	X		13
SW-70 (4.25')	8/12/2025		X		C	1		X	X	X		14
SW-71 (4.25')	8/12/2025		X		C	1		X	X	X		15
SW-72 (4.25')	8/12/2025		X		C	1		X	X	X		16
SW-73 (4.25')	8/12/2025		X		C	1		X	X	X		17
SW-74 (4.25')	8/12/2025		X		C	1		X	X	X		18
SW-75 (4.25')	8/12/2025		X		C	1		X	X	X		19
SW-76 (4.25')	8/12/2025		X		C	1		X	X	X		20

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

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas	8.27.25 1254	SRodriguez	

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 21, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: MADURO NORTH FEDERAL 4H

Enclosed are the results of analyses for samples received by the laboratory on 08/18/25 13:41.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 83 (4.25') (H255115-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.83	91.6	2.00	7.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.87	93.5	2.00	7.52	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	6.92	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.70	95.1	6.00	6.22	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1330**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	213	107	200	10.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	206	103	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *90.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *82.2 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 84 (4.25') (H255115-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.83	91.6	2.00	7.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.87	93.5	2.00	7.52	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	6.92	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.70	95.1	6.00	6.22	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1100**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	213	107	200	10.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	206	103	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *85.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *77.8 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 85 (4.25') (H255115-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.83	91.6	2.00	7.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.87	93.5	2.00	7.52	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	6.92	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.70	95.1	6.00	6.22	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**832**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	213	107	200	10.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	206	103	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *84.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *77.9 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 86 (4.25') (H255115-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.83	91.6	2.00	7.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.87	93.5	2.00	7.52	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	6.92	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.70	95.1	6.00	6.22	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**944**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	213	107	200	10.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	206	103	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *79.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *71.1 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 87 (4.25') (H255115-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.83	91.6	2.00	7.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.87	93.5	2.00	7.52	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	6.92	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.70	95.1	6.00	6.22	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**896**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	213	107	200	10.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	206	103	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *86.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *78.9 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 88 (4.25') (H255115-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.83	91.6	2.00	7.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.87	93.5	2.00	7.52	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	6.92	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.70	95.1	6.00	6.22	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**848**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	213	107	200	10.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	206	103	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *87.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *80.0 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 89 (4.25') (H255115-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.83	91.6	2.00	7.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.87	93.5	2.00	7.52	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	6.92	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.70	95.1	6.00	6.22	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**848**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	213	107	200	10.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	206	103	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *84.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *76.4 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 90 (4.25') (H255115-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.83	91.6	2.00	7.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.87	93.5	2.00	7.52	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	6.92	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.70	95.1	6.00	6.22	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**848**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	213	107	200	10.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	206	103	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *82.7 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *76.8 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 91 (4.25') (H255115-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.83	91.6	2.00	7.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.87	93.5	2.00	7.52	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	6.92	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.70	95.1	6.00	6.22	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**864**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	213	107	200	10.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	206	103	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *80.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *73.6 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 92 (4.25') (H255115-10)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.83	91.6	2.00	7.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.87	93.5	2.00	7.52	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	6.92	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.70	95.1	6.00	6.22	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**880**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	213	107	200	10.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	206	103	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *83.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *77.4 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 93 (4.25') (H255115-11)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.83	91.6	2.00	7.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.87	93.5	2.00	7.52	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	6.92	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.70	95.1	6.00	6.22	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**816**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	213	107	200	10.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	206	103	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *86.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *79.6 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 94 (4.25') (H255115-12)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.83	91.6	2.00	7.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.87	93.5	2.00	7.52	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	6.92	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.70	95.1	6.00	6.22	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**768**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	213	107	200	10.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	206	103	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *87.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *80.9 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 95 (4.25') (H255115-13)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.83	91.6	2.00	7.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.87	93.5	2.00	7.52	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	6.92	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.70	95.1	6.00	6.22	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**752**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	213	107	200	10.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	206	103	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *86.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *79.9 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 96 (4.25') (H255115-14)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.83	91.6	2.00	7.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.87	93.5	2.00	7.52	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	6.92	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.70	95.1	6.00	6.22	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**688**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	213	107	200	10.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	206	103	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *87.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *78.8 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 97 (4.25') (H255115-15)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.83	91.6	2.00	7.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.87	93.5	2.00	7.52	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	6.92	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.70	95.1	6.00	6.22	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *124 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**560**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	213	107	200	10.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	206	103	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *81.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *73.1 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 98 (4.25') (H255115-16)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.83	91.6	2.00	7.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.87	93.5	2.00	7.52	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	6.92	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.70	95.1	6.00	6.22	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**560**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	213	107	200	10.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	206	103	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *81.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *74.6 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 99 (4.25') (H255115-17)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.83	91.6	2.00	7.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.87	93.5	2.00	7.52	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	6.92	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.70	95.1	6.00	6.22	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**544**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	213	107	200	10.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	206	103	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *88.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *81.5 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 100 (4.25') (H255115-18)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.83	91.6	2.00	7.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.87	93.5	2.00	7.52	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	6.92	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.70	95.1	6.00	6.22	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**576**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	213	107	200	10.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	206	103	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *85.8 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *78.8 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 101 (4.25') (H255115-19)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.83	91.6	2.00	7.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.87	93.5	2.00	7.52	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	6.92	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.70	95.1	6.00	6.22	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**624**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	213	107	200	10.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	206	103	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *86.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *79.7 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 102 (4.25') (H255115-20)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.83	91.6	2.00	7.85	
Toluene*	<0.050	0.050	08/19/2025	ND	1.87	93.5	2.00	7.52	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	6.92	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.70	95.1	6.00	6.22	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**576**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	198	99.0	200	13.4	QM-07
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	196	97.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *96.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *98.3 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 103 (4.25') (H255115-21)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.86	93.2	2.00	3.80	
Toluene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	94.1	2.00	1.09	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.59	93.1	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *90.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**992**	16.0	08/19/2025	ND	416	104	400	3.77	QM-07

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	198	99.0	200	13.4	
DRO >C10-C28*	**90.5**	10.0	08/19/2025	ND	196	97.8	200	12.1	
EXT DRO >C28-C36	**24.6**	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *103 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *112 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 104 (4.25') (H255115-22)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.86	93.2	2.00	3.80	
Toluene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	94.1	2.00	1.09	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.59	93.1	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1090**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	198	99.0	200	13.4	
DRO >C10-C28*	**118**	10.0	08/19/2025	ND	196	97.8	200	12.1	
EXT DRO >C28-C36	**30.0**	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *111 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *120 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 105 (4.25') (H255115-23)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.86	93.2	2.00	3.80	
Toluene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	94.1	2.00	1.09	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.59	93.1	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1010**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	198	99.0	200	13.4	
DRO >C10-C28*	**82.6**	10.0	08/19/2025	ND	196	97.8	200	12.1	
EXT DRO >C28-C36	**21.2**	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *105 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *113 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 106 (4.25') (H255115-24)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.86	93.2	2.00	3.80	
Toluene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	94.1	2.00	1.09	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.59	93.1	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *90.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**992**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	198	99.0	200	13.4	
DRO >C10-C28*	**118**	10.0	08/19/2025	ND	196	97.8	200	12.1	
EXT DRO >C28-C36	**33.1**	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *111 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *124 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 107 (4.25') (H255115-25)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.86	93.2	2.00	3.80	
Toluene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	94.1	2.00	1.09	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.59	93.1	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *90.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**912**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	198	99.0	200	13.4	
DRO >C10-C28*	**64.6**	10.0	08/19/2025	ND	196	97.8	200	12.1	
EXT DRO >C28-C36	**17.2**	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *109 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *119 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 108 (4.25') (H255115-26)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.86	93.2	2.00	3.80	
Toluene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	94.1	2.00	1.09	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.59	93.1	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.0 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**928**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	198	99.0	200	13.4	
DRO >C10-C28*	**79.9**	10.0	08/19/2025	ND	196	97.8	200	12.1	
EXT DRO >C28-C36	**20.6**	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *102 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *112 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 109 (4.25') (H255115-27)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.86	93.2	2.00	3.80	
Toluene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	94.1	2.00	1.09	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.59	93.1	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *90.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1010**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	198	99.0	200	13.4	
DRO >C10-C28*	**74.8**	10.0	08/19/2025	ND	196	97.8	200	12.1	
EXT DRO >C28-C36	**18.8**	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *97.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *107 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 110 (4.25') (H255115-28)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.86	93.2	2.00	3.80	
Toluene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	94.1	2.00	1.09	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.59	93.1	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *90.0 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1070**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	198	99.0	200	13.4	
DRO >C10-C28*	**79.5**	10.0	08/19/2025	ND	196	97.8	200	12.1	
EXT DRO >C28-C36	**20.3**	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *98.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *107 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 111 (4.25') (H255115-29)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.86	93.2	2.00	3.80	
Toluene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	94.1	2.00	1.09	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.59	93.1	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *90.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**976**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	198	99.0	200	13.4	
DRO >C10-C28*	**70.4**	10.0	08/19/2025	ND	196	97.8	200	12.1	
EXT DRO >C28-C36	**17.7**	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *105 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *114 %* *40.6-153*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 112 (4.25') (H255115-30)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.86	93.2	2.00	3.80	
Toluene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	94.1	2.00	1.09	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.59	93.1	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1120**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	198	99.0	200	13.4	
DRO >C10-C28*	**69.4**	10.0	08/19/2025	ND	196	97.8	200	12.1	
EXT DRO >C28-C36	**19.4**	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *97.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *107 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 113 (4.25') (H255115-31)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.86	93.2	2.00	3.80	
Toluene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	94.1	2.00	1.09	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.59	93.1	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**960**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	198	99.0	200	13.4	
DRO >C10-C28*	**74.7**	10.0	08/19/2025	ND	196	97.8	200	12.1	
EXT DRO >C28-C36	**19.6**	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *104 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *115 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 114 (4.25') (H255115-32)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.86	93.2	2.00	3.80	
Toluene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	94.1	2.00	1.09	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.59	93.1	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.5 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1010**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	198	99.0	200	13.4	
DRO >C10-C28*	**84.2**	10.0	08/19/2025	ND	196	97.8	200	12.1	
EXT DRO >C28-C36	**22.8**	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *101 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *112 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 115 (4.25') (H255115-33)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.86	93.2	2.00	3.80	
Toluene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	94.1	2.00	1.09	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.59	93.1	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *90.5 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**912**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	198	99.0	200	13.4	
DRO >C10-C28*	**80.7**	10.0	08/19/2025	ND	196	97.8	200	12.1	
EXT DRO >C28-C36	**21.0**	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *102 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *111 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 116 (4.25') (H255115-34)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.86	93.2	2.00	3.80	
Toluene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	94.1	2.00	1.09	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.59	93.1	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *89.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1180**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	198	99.0	200	13.4	
DRO >C10-C28*	**69.9**	10.0	08/19/2025	ND	196	97.8	200	12.1	
EXT DRO >C28-C36	**18.4**	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *104 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *113 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 117 (4.25') (H255115-35)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.86	93.2	2.00	3.80	
Toluene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	94.1	2.00	1.09	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.59	93.1	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *90.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1440**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	198	99.0	200	13.4	
DRO >C10-C28*	**57.9**	10.0	08/19/2025	ND	196	97.8	200	12.1	
EXT DRO >C28-C36	**14.4**	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *115 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *124 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 77 (4.25') (H255115-36)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.86	93.2	2.00	3.80	
Toluene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	94.1	2.00	1.09	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.59	93.1	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.0 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**432**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	198	99.0	200	13.4	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	196	97.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *105 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *109 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 78 (4.25') (H255115-37)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.86	93.2	2.00	3.80	
Toluene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	94.1	2.00	1.09	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.59	93.1	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**480**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	198	99.0	200	13.4	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	196	97.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *102 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *106 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 79 (4.25') (H255115-38)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.86	93.2	2.00	3.80	
Toluene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	94.1	2.00	1.09	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.59	93.1	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *90.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**464**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2025	ND	198	99.0	200	13.4	
DRO >C10-C28*	<10.0	10.0	08/20/2025	ND	196	97.8	200	12.1	
EXT DRO >C28-C36	**14.1**	10.0	08/20/2025	ND					

Surrogate: 1-Chlorooctane *96.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *102 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 80 (4.25') (H255115-39)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.86	93.2	2.00	3.80	
Toluene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	94.1	2.00	1.09	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.59	93.1	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**464**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	198	99.0	200	13.4	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	196	97.8	200	12.1	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *112 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *116 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 81 (4.25') (H255115-40)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.86	93.2	2.00	3.80	
Toluene*	<0.050	0.050	08/19/2025	ND	1.88	93.9	2.00	1.09	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	1.88	94.1	2.00	1.09	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	5.59	93.1	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**368**	16.0	08/19/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	192	95.9	200	11.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	195	97.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *84.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *84.7 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 82 (4.25') (H255115-41)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.92	96.2	2.00	3.94	
Toluene*	<0.050	0.050	08/19/2025	ND	2.19	109	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	2.25	112	2.00	0.840	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	7.07	118	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**448**	16.0	08/19/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	192	95.9	200	11.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	195	97.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *84.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *84.5 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 83 (4.25') (H255115-42)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.92	96.2	2.00	3.94	
Toluene*	<0.050	0.050	08/19/2025	ND	2.19	109	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	2.25	112	2.00	0.840	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	7.07	118	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**384**	16.0	08/19/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	192	95.9	200	11.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	195	97.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *85.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *85.5 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 84 (4.25') (H255115-43)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.92	96.2	2.00	3.94	
Toluene*	<0.050	0.050	08/19/2025	ND	2.19	109	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	2.25	112	2.00	0.840	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	7.07	118	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**432**	16.0	08/19/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	192	95.9	200	11.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	195	97.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *84.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *85.2 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 85 (4.25') (H255115-44)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.92	96.2	2.00	3.94	
Toluene*	<0.050	0.050	08/19/2025	ND	2.19	109	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	2.25	112	2.00	0.840	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	7.07	118	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**416**	16.0	08/19/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	192	95.9	200	11.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	195	97.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *94.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *94.0 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 86 (4.25') (H255115-45)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.92	96.2	2.00	3.94	
Toluene*	<0.050	0.050	08/19/2025	ND	2.19	109	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	2.25	112	2.00	0.840	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	7.07	118	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**384**	16.0	08/19/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	192	95.9	200	11.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	195	97.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *89.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *90.1 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 87 (4.25') (H255115-46)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.92	96.2	2.00	3.94	
Toluene*	<0.050	0.050	08/19/2025	ND	2.19	109	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	2.25	112	2.00	0.840	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	7.07	118	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**368**	16.0	08/19/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	192	95.9	200	11.7	
DRO >C10-C28*	**11.2**	10.0	08/19/2025	ND	195	97.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *94.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *93.2 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 88 (4.25') (H255115-47)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.92	96.2	2.00	3.94	
Toluene*	<0.050	0.050	08/19/2025	ND	2.19	109	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	2.25	112	2.00	0.840	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	7.07	118	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**368**	16.0	08/19/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	192	95.9	200	11.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	195	97.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *93.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *92.0 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 89 (4.25') (H255115-48)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.92	96.2	2.00	3.94	
Toluene*	<0.050	0.050	08/19/2025	ND	2.19	109	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	2.25	112	2.00	0.840	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	7.07	118	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**400**	16.0	08/19/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	192	95.9	200	11.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	195	97.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *97.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *96.7 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 90 (4.25') (H255115-49)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.92	96.2	2.00	3.94	
Toluene*	<0.050	0.050	08/19/2025	ND	2.19	109	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	2.25	112	2.00	0.840	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	7.07	118	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**384**	16.0	08/19/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	192	95.9	200	11.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	195	97.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *89.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *89.8 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 91 (4.25') (H255115-50)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.92	96.2	2.00	3.94	
Toluene*	<0.050	0.050	08/19/2025	ND	2.19	109	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	2.25	112	2.00	0.840	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	7.07	118	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *116 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**480**	16.0	08/19/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	192	95.9	200	11.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	195	97.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *76.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *74.2 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 92 (4.25') (H255115-51)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.92	96.2	2.00	3.94	
Toluene*	<0.050	0.050	08/19/2025	ND	2.19	109	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	2.25	112	2.00	0.840	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	7.07	118	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *120 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**656**	16.0	08/19/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	192	95.9	200	11.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	195	97.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *82.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *79.4 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 93 (4.25') (H255115-52)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.92	96.2	2.00	3.94	
Toluene*	<0.050	0.050	08/19/2025	ND	2.19	109	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	2.25	112	2.00	0.840	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	7.07	118	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *118 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**656**	16.0	08/19/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	192	95.9	200	11.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	195	97.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *83.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *80.9 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 94 (4.25') (H255115-53)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.92	96.2	2.00	3.94	
Toluene*	<0.050	0.050	08/19/2025	ND	2.19	109	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	2.25	112	2.00	0.840	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	7.07	118	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**544**	16.0	08/19/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	192	95.9	200	11.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	195	97.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *87.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *83.5 %* *40.6-153*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 95 (4.25') (H255115-54)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.92	96.2	2.00	3.94	
Toluene*	<0.050	0.050	08/19/2025	ND	2.19	109	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	2.25	112	2.00	0.840	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	7.07	118	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *119 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**624**	16.0	08/19/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	192	95.9	200	11.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	195	97.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *83.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *78.7 %* *40.6-153*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 96 (4.25') (H255115-55)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.92	96.2	2.00	3.94	
Toluene*	<0.050	0.050	08/19/2025	ND	2.19	109	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	2.25	112	2.00	0.840	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	7.07	118	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/19/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	192	95.9	200	11.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	195	97.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *76.8 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *72.9 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 97 (4.25') (H255115-56)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.92	96.2	2.00	3.94	
Toluene*	<0.050	0.050	08/19/2025	ND	2.19	109	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	2.25	112	2.00	0.840	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	7.07	118	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *118 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/19/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	192	95.9	200	11.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	195	97.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *83.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *79.6 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 98 (4.25') (H255115-57)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.92	96.2	2.00	3.94	
Toluene*	<0.050	0.050	08/19/2025	ND	2.19	109	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	2.25	112	2.00	0.840	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	7.07	118	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *117 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/19/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	192	95.9	200	11.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	195	97.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *81.8 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *78.9 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 99 (4.25') (H255115-58)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.92	96.2	2.00	3.94	
Toluene*	<0.050	0.050	08/19/2025	ND	2.19	109	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	2.25	112	2.00	0.840	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	7.07	118	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/19/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	192	95.9	200	11.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	195	97.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *75.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *70.7 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/18/2025	Sampling Date:	08/18/2025
Reported:	08/21/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 100 (4.25') (H255115-59)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2025	ND	1.92	96.2	2.00	3.94	
Toluene*	<0.050	0.050	08/19/2025	ND	2.19	109	2.00	1.26	
Ethylbenzene*	<0.050	0.050	08/19/2025	ND	2.25	112	2.00	0.840	
Total Xylenes*	<0.150	0.150	08/19/2025	ND	7.07	118	6.00	1.21	
Total BTEX	<0.300	0.300	08/19/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *123 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/19/2025	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/19/2025	ND	192	95.9	200	11.7	
DRO >C10-C28*	<10.0	10.0	08/19/2025	ND	195	97.3	200	12.4	
EXT DRO >C28-C36	<10.0	10.0	08/19/2025	ND					

Surrogate: 1-Chlorooctane *75.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *70.7 %* *40.6-153*

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 366 of 540

Chain of Custody

Work Order No: H255115

Page 1 of 6

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	☐ Routine ☑ Rush
Project Number:	2741	Due Date:	72 Hours
Project Location	Lea County, New Mexico		
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Received Intact:	(Yes) No	Thermometer ID:	#140
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	+0.3°c
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.9
Total Containers:		Corrected Temperature:	5.2

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

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Hold	Sample Comments
CS-83 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-84 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-85 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-86 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-87 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-88 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-89 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-90 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-91 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-92 (4.25')	8/18/2025		X		C	1		X	X	X		

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas	8-18-25 1341		

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

Page 367 of 540

Page 63 of 67

Chain of Custody

Work Order No: H255115

Page 2 of 6

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	
Project Number:	2741	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	72 Hours
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Received Intact:	(Yes) No	Thermometer ID:	#140
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	+0.3°c
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.9
Total Containers:		Corrected Temperature:	5.2

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Hold	Sample Comments
CS-93 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-94 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-95 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-96 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-97 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-98 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-99 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-100 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-101 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-102 (4.25')	8/18/2025		X		C	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

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas	8-18-25 1341	Samantha Hidalgo	

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

Page 368 of 540

Chain of Custody

Work Order No: H255115

Page 3 of 6

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	☐ Routine ☑ Rush
Project Number:	2741	Due Date:	72 Hours
Project Location	Lea County, New Mexico		
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	#140
Cooler Custody Seals:	Yes No N/A	Correction Factor:	+0.3°c
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.9
Total Containers:		Corrected Temperature:	5.2

Preservative Codes

None: NO; D: 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 4500	Hold	Sample Comments
CS-103 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-104 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-105 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-106 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-107 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-108 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-109 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-110 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-111 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-112 (4.25')	8/18/2025		X		C	1		X	X	X		

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fatima Vargas	8-18-25 1341		

Received by OCD: 9/24/2025 2:47:43 PM
Released to Imaging: 9/25/2025 3:18:41 PM

Chain of Custody

Work Order No: H255115

Page 4 of 6

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	
Project Number:	2741	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	72 Hours
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)	
Received Intact:	(Yes) No	Thermometer ID:	#140	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	+0.3°c	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.9	
Total Containers:		Corrected Temperature:	5.2	

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 4500	Hold	Sample Comments
CS-113 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-114 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-115 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-116 (4.25')	8/18/2025		X		C	1		X	X	X		
CS-117 (4.25')	8/18/2025		X		C	1		X	X	X		
SW-77 (4.25')	8/18/2025		X		C	1		X	X	X		
SW-78 (4.25')	8/18/2025		X		C	1		X	X	X		
SW-79 (4.25')	8/18/2025		X		C	1		X	X	X		
SW-80 (4.25')	8/18/2025		X		C	1		X	X	X		
SW-81 (4.25')	8/18/2025		X		C	1		X	X	X		

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas	8-18-25 1341		

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

Page 370 of 540

Chain of Custody

Work Order No: H255115

Page 5 of 6

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	☐ Routine ☑ Rush
Project Number:	2741	Due Date:	72 Hours
Project Location	Lea County, New Mexico		
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	#140
Cooler Custody Seals:	Yes No N/A	Correction Factor:	+0.3°c
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.9
Total Containers:		Corrected Temperature:	5.2

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 4500	Hold	Sample Comments
SW-82 (4.25')	8/18/2025		X		C	1		X	X	X		
SW-83 (4.25')	8/18/2025		X		C	1		X	X	X		
SW-84 (4.25')	8/18/2025		X		C	1		X	X	X		
SW-85 (4.25')	8/18/2025		X		C	1		X	X	X		
SW-86 (4.25')	8/18/2025		X		C	1		X	X	X		
SW-87 (4.25')	8/18/2025		X		C	1		X	X	X		
SW-88 (4.25')	8/18/2025		X		C	1		X	X	X		
SW-89 (4.25')	8/18/2025		X		C	1		X	X	X		
SW-90 (4.25')	8/18/2025		X		C	1		X	X	X		
SW-91 (4.25')	8/18/2025		X		C	1		X	X	X		

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas	8-18-25 1341		

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

Page 371 of 540

Chain of Custody

Work Order No: H255115

Page 6 of 6

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	☐ Routine ☑ Rush
Project Number:	2741	Due Date:	72-Hours
Project Location	Lea County, New Mexico		
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	#140
Cooler Custody Seals:	Yes No N/A	Correction Factor:	+0.3°c
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.9
Total Containers:		Corrected Temperature:	5.2

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 4500	Hold	Sample Comments
SW-92 (4.25')	8/18/2025		X		C	1		X	X	X		
SW-93 (4.25')	8/18/2025		X		C	1		X	X	X		
SW-94 (4.25')	8/18/2025		X		C	1		X	X	X		
SW-95 (4.25')	8/18/2025		X		C	1		X	X	X		
SW-96 (4.25')	8/18/2025		X		C	1		X	X	X		
SW-97 (4.25')	8/18/2025		X		C	1		X	X	X		
SW-98 (4.25')	8/18/2025		X		C	1		X	X	X		
SW-99 (4.25')	8/18/2025		X		C	1		X	X	X		
SW-100 (4.25')	8/18/2025		X		C	1		X	X	X		

Parameters

ANALYSIS REQUEST

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas	8-18-25 1341		

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 25, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: MADURO NORTH FEDERAL 4H

Enclosed are the results of analyses for samples received by the laboratory on 08/20/25 15:21.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 118 (4.25') (H255196-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.69	84.4	2.00	6.77	QM-07
Toluene*	<0.050	0.050	08/21/2025	ND	1.80	90.0	2.00	3.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.83	91.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.37	89.6	6.00	2.27	QM-07
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.0 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4320**	16.0	08/21/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	178	89.1	200	3.11	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	171	85.6	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *74.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *70.7 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 119 (4.25') (H255196-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.69	84.4	2.00	6.77	
Toluene*	<0.050	0.050	08/21/2025	ND	1.80	90.0	2.00	3.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.83	91.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.37	89.6	6.00	2.27	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4880**	16.0	08/21/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	178	89.1	200	3.11	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	171	85.6	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *78.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *74.1 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 120 (4.25') (H255196-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.69	84.4	2.00	6.77	
Toluene*	<0.050	0.050	08/21/2025	ND	1.80	90.0	2.00	3.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.83	91.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.37	89.6	6.00	2.27	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.0 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4480**	16.0	08/21/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	178	89.1	200	3.11	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	171	85.6	200	3.36	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *78.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *73.3 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 121 (4.25') (H255196-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.69	84.4	2.00	6.77	
Toluene*	<0.050	0.050	08/21/2025	ND	1.80	90.0	2.00	3.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.83	91.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.37	89.6	6.00	2.27	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4520**	16.0	08/21/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	197	98.5	200	6.82	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	94.0	200	8.21	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *102 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *111 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 122 (4.25') (H255196-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.69	84.4	2.00	6.77	
Toluene*	<0.050	0.050	08/21/2025	ND	1.80	90.0	2.00	3.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.83	91.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.37	89.6	6.00	2.27	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3960**	16.0	08/21/2025	ND	400	100	400	3.92	QM-07

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	197	98.5	200	6.82	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	94.0	200	8.21	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *103 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *109 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 123 (4.25') (H255196-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.69	84.4	2.00	6.77	
Toluene*	<0.050	0.050	08/21/2025	ND	1.80	90.0	2.00	3.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.83	91.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.37	89.6	6.00	2.27	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4240**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	197	98.5	200	6.82	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	94.0	200	8.21	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *112 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *117 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 124 (4.25') (H255196-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.69	84.4	2.00	6.77	
Toluene*	<0.050	0.050	08/21/2025	ND	1.80	90.0	2.00	3.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.83	91.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.37	89.6	6.00	2.27	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.5 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3720**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	197	98.5	200	6.82	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	94.0	200	8.21	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *111 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *115 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 125 (4.25') (H255196-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.69	84.4	2.00	6.77	
Toluene*	<0.050	0.050	08/21/2025	ND	1.80	90.0	2.00	3.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.83	91.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.37	89.6	6.00	2.27	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4480**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	197	98.5	200	6.82	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	94.0	200	8.21	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *115 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *123 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 126 (4.25') (H255196-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.69	84.4	2.00	6.77	
Toluene*	<0.050	0.050	08/21/2025	ND	1.80	90.0	2.00	3.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.83	91.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.37	89.6	6.00	2.27	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4200**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	197	98.5	200	6.82	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	94.0	200	8.21	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *114 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *119 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 127 (4.25') (H255196-10)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.69	84.4	2.00	6.77	
Toluene*	<0.050	0.050	08/21/2025	ND	1.80	90.0	2.00	3.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.83	91.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.37	89.6	6.00	2.27	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3800**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	197	98.5	200	6.82	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	94.0	200	8.21	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *108 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *113 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 128 (4.25') (H255196-11)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.69	84.4	2.00	6.77	
Toluene*	<0.050	0.050	08/21/2025	ND	1.80	90.0	2.00	3.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.83	91.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.37	89.6	6.00	2.27	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4120**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	197	98.5	200	6.82	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	94.0	200	8.21	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *110 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *114 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 129 (4.25') (H255196-12)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.69	84.4	2.00	6.77	
Toluene*	<0.050	0.050	08/21/2025	ND	1.80	90.0	2.00	3.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.83	91.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.37	89.6	6.00	2.27	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3560**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	197	98.5	200	6.82	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	94.0	200	8.21	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *112 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *116 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 130 (4.25') (H255196-13)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.69	84.4	2.00	6.77	
Toluene*	<0.050	0.050	08/21/2025	ND	1.80	90.0	2.00	3.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.83	91.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.37	89.6	6.00	2.27	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3520**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	197	98.5	200	6.82	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	94.0	200	8.21	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *111 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *114 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 131 (4.25') (H255196-14)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.69	84.4	2.00	6.77	
Toluene*	<0.050	0.050	08/21/2025	ND	1.80	90.0	2.00	3.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.83	91.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.37	89.6	6.00	2.27	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3560**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	197	98.5	200	6.82	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	94.0	200	8.21	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *107 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *113 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 132 (4.25') (H255196-15)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.69	84.4	2.00	6.77	
Toluene*	<0.050	0.050	08/21/2025	ND	1.80	90.0	2.00	3.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.83	91.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.37	89.6	6.00	2.27	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.5 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3520**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	197	98.5	200	6.82	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	94.0	200	8.21	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *107 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *112 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 133 (4.25') (H255196-16)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.69	84.4	2.00	6.77	
Toluene*	<0.050	0.050	08/21/2025	ND	1.80	90.0	2.00	3.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.83	91.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.37	89.6	6.00	2.27	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3360**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	197	98.5	200	6.82	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	94.0	200	8.21	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *106 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *110 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 134 (4.25') (H255196-17)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.69	84.4	2.00	6.77	
Toluene*	<0.050	0.050	08/21/2025	ND	1.80	90.0	2.00	3.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.83	91.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.37	89.6	6.00	2.27	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3240**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	197	98.5	200	6.82	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	94.0	200	8.21	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *112 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *117 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 135 (4.25') (H255196-18)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.69	84.4	2.00	6.77	
Toluene*	<0.050	0.050	08/21/2025	ND	1.80	90.0	2.00	3.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.83	91.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.37	89.6	6.00	2.27	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.0 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2560**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	197	98.5	200	6.82	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	94.0	200	8.21	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *109 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *111 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 136 (4.25') (H255196-19)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.69	84.4	2.00	6.77	
Toluene*	<0.050	0.050	08/21/2025	ND	1.80	90.0	2.00	3.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.83	91.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.37	89.6	6.00	2.27	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1960**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	197	98.5	200	6.82	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	94.0	200	8.21	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *111 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *114 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 101 (4.25') (H255196-20)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.69	84.4	2.00	6.77	
Toluene*	<0.050	0.050	08/21/2025	ND	1.80	90.0	2.00	3.83	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.83	91.5	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.37	89.6	6.00	2.27	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	197	98.5	200	6.82	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	94.0	200	8.21	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *103 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *105 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 102 (4.25') (H255196-21)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.71	85.5	2.00	12.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.82	91.1	2.00	10.5	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.88	94.0	2.00	9.76	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.75	95.8	6.00	9.10	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	197	98.5	200	6.82	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	94.0	200	8.21	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *106 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *107 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 103 (4.25') (H255196-22)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.71	85.5	2.00	12.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.82	91.1	2.00	10.5	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.88	94.0	2.00	9.76	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.75	95.8	6.00	9.10	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	197	98.5	200	6.82	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	94.0	200	8.21	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *109 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *109 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 104 (4.25') (H255196-23)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.71	85.5	2.00	12.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.82	91.1	2.00	10.5	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.88	94.0	2.00	9.76	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.75	95.8	6.00	9.10	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	197	98.5	200	6.82	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	188	94.0	200	8.21	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *96.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *96.8 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 105 (4.25') (H255196-24)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.71	85.5	2.00	12.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.82	91.1	2.00	10.5	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.88	94.0	2.00	9.76	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.75	95.8	6.00	9.10	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	178	89.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	208	104	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *84.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *86.4 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 106 (4.25') (H255196-25)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.71	85.5	2.00	12.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.82	91.1	2.00	10.5	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.88	94.0	2.00	9.76	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.75	95.8	6.00	9.10	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	178	89.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	208	104	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *86.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *88.5 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 107 (4.25') (H255196-26)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.71	85.5	2.00	12.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.82	91.1	2.00	10.5	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.88	94.0	2.00	9.76	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.75	95.8	6.00	9.10	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	178	89.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	208	104	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *86.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *87.7 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 108 (4.25') (H255196-27)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.71	85.5	2.00	12.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.82	91.1	2.00	10.5	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.88	94.0	2.00	9.76	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.75	95.8	6.00	9.10	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	178	89.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	208	104	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *86.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *86.6 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 109 (4.25') (H255196-28)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.71	85.5	2.00	12.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.82	91.1	2.00	10.5	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.88	94.0	2.00	9.76	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.75	95.8	6.00	9.10	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	178	89.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	208	104	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *81.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *81.6 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 110 (4.25') (H255196-29)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.71	85.5	2.00	12.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.82	91.1	2.00	10.5	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.88	94.0	2.00	9.76	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.75	95.8	6.00	9.10	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	178	89.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	208	104	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *83.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *84.5 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 111 (4.25') (H255196-30)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.71	85.5	2.00	12.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.82	91.1	2.00	10.5	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.88	94.0	2.00	9.76	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.75	95.8	6.00	9.10	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	178	89.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	208	104	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *88.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *88.5 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 112 (4.25') (H255196-31)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.71	85.5	2.00	12.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.82	91.1	2.00	10.5	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.88	94.0	2.00	9.76	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.75	95.8	6.00	9.10	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	178	89.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	208	104	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *74.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *72.0 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 113 (4.25') (H255196-32)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.71	85.5	2.00	12.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.82	91.1	2.00	10.5	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.88	94.0	2.00	9.76	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.75	95.8	6.00	9.10	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	178	89.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	208	104	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *103 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *99.9 %* *40.6-153*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 114 (4.25') (H255196-33)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.71	85.5	2.00	12.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.82	91.1	2.00	10.5	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.88	94.0	2.00	9.76	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.75	95.8	6.00	9.10	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	178	89.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	208	104	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *89.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *86.2 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 115 (4.25') (H255196-34)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.71	85.5	2.00	12.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.82	91.1	2.00	10.5	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.88	94.0	2.00	9.76	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.75	95.8	6.00	9.10	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	178	89.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	208	104	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *83.8 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *83.8 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 116 (4.25') (H255196-35)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.71	85.5	2.00	12.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.82	91.1	2.00	10.5	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.88	94.0	2.00	9.76	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.75	95.8	6.00	9.10	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	178	89.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	208	104	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *89.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *87.0 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 117 (4.25') (H255196-36)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.71	85.5	2.00	12.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.82	91.1	2.00	10.5	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.88	94.0	2.00	9.76	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.75	95.8	6.00	9.10	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	178	89.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	208	104	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *91.7 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *89.9 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 118 (4.25') (H255196-37)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.71	85.5	2.00	12.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.82	91.1	2.00	10.5	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.88	94.0	2.00	9.76	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.75	95.8	6.00	9.10	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *118 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	178	89.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	208	104	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *92.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *89.6 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 119 (4.25') (H255196-38)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.71	85.5	2.00	12.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.82	91.1	2.00	10.5	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.88	94.0	2.00	9.76	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.75	95.8	6.00	9.10	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	178	89.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	208	104	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *90.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *88.5 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 120 (4.25') (H255196-39)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.71	85.5	2.00	12.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.82	91.1	2.00	10.5	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.88	94.0	2.00	9.76	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.75	95.8	6.00	9.10	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	178	89.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	208	104	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *87.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *84.7 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 121 (4.25') (H255196-40)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.71	85.5	2.00	12.8	
Toluene*	<0.050	0.050	08/21/2025	ND	1.82	91.1	2.00	10.5	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.88	94.0	2.00	9.76	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	5.75	95.8	6.00	9.10	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *116 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	178	89.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	208	104	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *86.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *83.9 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 122 (4.25') (H255196-41)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.86	93.2	2.00	19.4	
Toluene*	<0.050	0.050	08/21/2025	ND	1.97	98.7	2.00	15.8	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.98	99.1	2.00	13.2	QR-03
Total Xylenes*	<0.150	0.150	08/21/2025	ND	6.14	102	6.00	12.4	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	178	89.2	200	10.8	
DRO >C10-C28*	**10.2**	10.0	08/21/2025	ND	208	104	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *88.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *84.4 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 123 (4.25') (H255196-42)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.86	93.2	2.00	19.4	
Toluene*	<0.050	0.050	08/21/2025	ND	1.97	98.7	2.00	15.8	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.98	99.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	6.14	102	6.00	12.4	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	178	89.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	208	104	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *89.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *86.7 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 124 (4.25') (H255196-43)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.86	93.2	2.00	19.4	
Toluene*	<0.050	0.050	08/21/2025	ND	1.97	98.7	2.00	15.8	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.98	99.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	6.14	102	6.00	12.4	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	178	89.2	200	10.8	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	208	104	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *87.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *84.7 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 125 (4.25') (H255196-44)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.86	93.2	2.00	19.4	
Toluene*	<0.050	0.050	08/21/2025	ND	1.97	98.7	2.00	15.8	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.98	99.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	6.14	102	6.00	12.4	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/21/2025	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	180	90.1	200	3.64	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	181	90.5	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *64.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *56.2 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 126 (4.25') (H255196-45)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.86	93.2	2.00	19.4	
Toluene*	<0.050	0.050	08/21/2025	ND	1.97	98.7	2.00	15.8	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.98	99.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	6.14	102	6.00	12.4	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/21/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	180	90.1	200	3.64	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	181	90.5	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *59.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *52.2 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 127 (4.25') (H255196-46)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.86	93.2	2.00	19.4	
Toluene*	<0.050	0.050	08/21/2025	ND	1.97	98.7	2.00	15.8	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.98	99.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	6.14	102	6.00	12.4	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/21/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	180	90.1	200	3.64	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	181	90.5	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *68.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *60.8 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 128 (4.25') (H255196-47)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.86	93.2	2.00	19.4	
Toluene*	<0.050	0.050	08/21/2025	ND	1.97	98.7	2.00	15.8	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.98	99.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	6.14	102	6.00	12.4	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/21/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	180	90.1	200	3.64	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	181	90.5	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *66.8 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *57.8 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 129 (4.25') (H255196-48)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.86	93.2	2.00	19.4	
Toluene*	<0.050	0.050	08/21/2025	ND	1.97	98.7	2.00	15.8	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.98	99.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	6.14	102	6.00	12.4	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/21/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	180	90.1	200	3.64	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	181	90.5	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *71.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *63.7 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 130 (4.25') (H255196-49)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.86	93.2	2.00	19.4	
Toluene*	<0.050	0.050	08/21/2025	ND	1.97	98.7	2.00	15.8	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.98	99.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	6.14	102	6.00	12.4	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/21/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	180	90.1	200	3.64	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	181	90.5	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *63.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *57.0 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 131 (4.25') (H255196-50)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.86	93.2	2.00	19.4	
Toluene*	<0.050	0.050	08/21/2025	ND	1.97	98.7	2.00	15.8	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.98	99.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	6.14	102	6.00	12.4	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/21/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	180	90.1	200	3.64	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	181	90.5	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *61.8 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *54.8 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 132 (4.25') (H255196-51)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.86	93.2	2.00	19.4	
Toluene*	<0.050	0.050	08/21/2025	ND	1.97	98.7	2.00	15.8	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.98	99.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	6.14	102	6.00	12.4	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/21/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	180	90.1	200	3.64	
DRO >C10-C28*	**14.2**	10.0	08/21/2025	ND	181	90.5	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *69.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *62.0 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 133 (4.25') (H255196-52)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.86	93.2	2.00	19.4	
Toluene*	<0.050	0.050	08/21/2025	ND	1.97	98.7	2.00	15.8	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.98	99.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	6.14	102	6.00	12.4	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/21/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	180	90.1	200	3.64	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	181	90.5	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *62.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *56.3 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 134 (4.25') (H255196-53)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.86	93.2	2.00	19.4	
Toluene*	<0.050	0.050	08/21/2025	ND	1.97	98.7	2.00	15.8	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.98	99.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	6.14	102	6.00	12.4	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/21/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	180	90.1	200	3.64	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	181	90.5	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *64.7 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *56.9 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 135 (4.25') (H255196-54)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.86	93.2	2.00	19.4	
Toluene*	<0.050	0.050	08/21/2025	ND	1.97	98.7	2.00	15.8	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.98	99.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	6.14	102	6.00	12.4	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/21/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	180	90.1	200	3.64	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	181	90.5	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *58.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *52.5 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 136 (4.25') (H255196-55)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.86	93.2	2.00	19.4	
Toluene*	<0.050	0.050	08/21/2025	ND	1.97	98.7	2.00	15.8	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.98	99.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	6.14	102	6.00	12.4	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *116 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/21/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	180	90.1	200	3.64	
DRO >C10-C28*	**10.3**	10.0	08/21/2025	ND	181	90.5	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *58.8 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *52.6 %* *40.6-153*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 137 (4.25') (H255196-56)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.86	93.2	2.00	19.4	
Toluene*	<0.050	0.050	08/21/2025	ND	1.97	98.7	2.00	15.8	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.98	99.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	6.14	102	6.00	12.4	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/21/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	180	90.1	200	3.64	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	181	90.5	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *62.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *56.2 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 138 (4.25') (H255196-57)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.86	93.2	2.00	19.4	
Toluene*	<0.050	0.050	08/21/2025	ND	1.97	98.7	2.00	15.8	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.98	99.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	6.14	102	6.00	12.4	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/21/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	180	90.1	200	3.64	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	181	90.5	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *58.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *52.5 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 139 (4.25') (H255196-58)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.86	93.2	2.00	19.4	
Toluene*	<0.050	0.050	08/21/2025	ND	1.97	98.7	2.00	15.8	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.98	99.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	6.14	102	6.00	12.4	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/21/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	180	90.1	200	3.64	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	181	90.5	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *68.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *61.7 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 140 (4.25') (H255196-59)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.86	93.2	2.00	19.4	
Toluene*	<0.050	0.050	08/21/2025	ND	1.97	98.7	2.00	15.8	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.98	99.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	6.14	102	6.00	12.4	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/21/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	180	90.1	200	3.64	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	181	90.5	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *60.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *55.4 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 141 (4.25') (H255196-60)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.86	93.2	2.00	19.4	
Toluene*	<0.050	0.050	08/21/2025	ND	1.97	98.7	2.00	15.8	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	1.98	99.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	6.14	102	6.00	12.4	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/21/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	180	90.1	200	3.64	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	181	90.5	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *67.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *60.4 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 142 (4.25') (H255196-61)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.81	90.6	2.00	9.81	
Toluene*	<0.050	0.050	08/21/2025	ND	2.15	108	2.00	6.52	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	2.26	113	2.00	3.91	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	7.08	118	6.00	3.51	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/21/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	180	90.1	200	3.64	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	181	90.5	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *58.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *52.7 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 143 (4.25') (H255196-62)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.81	90.6	2.00	9.81	
Toluene*	<0.050	0.050	08/21/2025	ND	2.15	108	2.00	6.52	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	2.26	113	2.00	3.91	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	7.08	118	6.00	3.51	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/21/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	180	90.1	200	3.64	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	181	90.5	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *62.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *56.0 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/20/2025	Sampling Date:	08/20/2025
Reported:	08/25/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 144 (4.25') (H255196-63)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2025	ND	1.81	90.6	2.00	9.81	
Toluene*	<0.050	0.050	08/21/2025	ND	2.15	108	2.00	6.52	
Ethylbenzene*	<0.050	0.050	08/21/2025	ND	2.26	113	2.00	3.91	
Total Xylenes*	<0.150	0.150	08/21/2025	ND	7.08	118	6.00	3.51	
Total BTEX	<0.300	0.300	08/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/21/2025	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/21/2025	ND	180	90.1	200	3.64	
DRO >C10-C28*	<10.0	10.0	08/21/2025	ND	181	90.5	200	6.58	
EXT DRO >C28-C36	<10.0	10.0	08/21/2025	ND					

Surrogate: 1-Chlorooctane *71.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *64.2 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H255190

Page 1 of 7

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	
Project Number:	2741	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	72 Hours
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)	
Received Intact:	(Yes) No	Thermometer ID:	#140	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	+0.3°c	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.9c	
Total Containers:		Corrected Temperature:	4.2c	

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 4500	Hold	Sample Comments
1	CS-118 (4.25')	8/20/2025		X		C	1		X	X	X		
2	CS-119 (4.25')	8/20/2025		X		C	1		X	X	X		
3	CS-120 (4.25')	8/20/2025		X		C	1		X	X	X		
4	CS-121 (4.25')	8/20/2025		X		C	1		X	X	X		
5	CS-122 (4.25')	8/20/2025		X		C	1		X	X	X		
6	CS-123 (4.25')	8/20/2025		X		C	1		X	X	X		
7	CS-124 (4.25')	8/20/2025		X		C	1		X	X	X		
8	CS-125 (4.25')	8/20/2025		X		C	1		X	X	X		
9	CS-126 (4.25')	8/20/2025		X		C	1		X	X	X		
10	CS-127 (4.25')	8/20/2025		X		C	1		X	X	X		

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas		[signature]	8/20/2025 1521

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

Chain of Custody

Work Order No: H255190

Page 2 of 7

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	
Project Number:	2741	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	72 Hours
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)	
Received Intact:	(Yes) No	Thermometer ID:	#140	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	+0.3°c	
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	3.9c	
Total Containers:		Corrected Temperature:	4.2c	

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 4500	Hold	Sample Comments
11	CS-128 (4.25')	8/20/2025		X		C	1		X	X	X		
12	CS-129 (4.25')	8/20/2025		X		C	1		X	X	X		
13	CS-130 (4.25')	8/20/2025		X		C	1		X	X	X		
14	CS-131 (4.25')	8/20/2025		X		C	1		X	X	X		
15	CS-132 (4.25')	8/20/2025		X		C	1		X	X	X		
16	CS-133 (4.25')	8/20/2025		X		C	1		X	X	X		
17	CS-134 (4.25')	8/20/2025		X		C	1		X	X	X		
18	CS-135 (4.25')	8/20/2025		X		C	1		X	X	X		
19	CS-136 (4.25')	8/20/2025		X		C	1		X	X	X		
20	SW-101 (4.25')	8/20/2025		X		C	1		X	X	X		

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas		APARRA	8/20/25 1524

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Chain of Custody

Work Order No: H25579U

Page 3 of 7

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	
Project Number:	2741	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	72 Hours
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)	
Received Intact:	(Yes) No	Thermometer ID:	#140	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	+0.3°c	
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	3.9	
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	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Hold	Sample Comments
21	SW-102 (4.25')	8/20/2025		X		C	1		X	X	X		
22	SW-103 (4.25')	8/20/2025		X		C	1		X	X	X		
23	SW-104 (4.25')	8/20/2025		X		C	1		X	X	X		
24	SW-105 (4.25')	8/20/2025		X		C	1		X	X	X		
25	SW-106 (4.25')	8/20/2025		X		C	1		X	X	X		
26	SW-107 (4.25')	8/20/2025		X		C	1		X	X	X		
27	SW-108 (4.25')	8/20/2025		X		C	1		X	X	X		
28	SW-109 (4.25')	8/20/2025		X		C	1		X	X	X		
29	SW-110 (4.25')	8/20/2025		X		C	1		X	X	X		
30	SW-111 (4.25')	8/20/2025		X		C	1		X	X	X		

Comments:

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Fabian Vargas		Apaniz	8:20 25/5/25

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Chain of Custody

Work Order No: H255190

Page 4 of 7

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	☐ Routine ☑ Rush
Project Number:	2741	Due Date:	72 Hours
Project Location	Lea County, New Mexico		
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	#140
Cooler Custody Seals:	Yes No N/A	Correction Factor:	+0.3°c
Sample Custody Seals:	Yes No N/A	Temperature Reading:	3.9
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 4500	Hold	Sample Comments
31	SW-112 (4.25')	8/20/2025		X		C	1		X	X	X		
32	SW-113 (4.25')	8/20/2025		X		C	1		X	X	X		
33	SW-114 (4.25')	8/20/2025		X		C	1		X	X	X		
34	SW-115 (4.25')	8/20/2025		X		C	1		X	X	X		
35	SW-116 (4.25')	8/20/2025		X		C	1		X	X	X		
36	SW-117 (4.25')	8/20/2025		X		C	1		X	X	X		
37	SW-118 (4.25')	8/20/2025		X		C	1		X	X	X		
38	SW-119 (4.25')	8/20/2025		X		C	1		X	X	X		
39	SW-120 (4.25')	8/20/2025		X		C	1		X	X	X		
40	SW-121 (4.25')	8/20/2025		X		C	1		X	X	X		

Comments:

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Fabian Vargas			8-20-25/1521

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Page 441 of 540

Chain of Custody

Work Order No: H255196

Page 5 of 7

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	
Project Number:	2741	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	72 Hours
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Received Intact:	(Yes) No	Thermometer ID:	#140
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	+0.3°c
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	3.9
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 4500	Hold	Sample Comments
41	SW-122 (4.25')	8/20/2025		X		C	1		X	X	X		
42	SW-123 (4.25')	8/20/2025		X		C	1		X	X	X		
43	SW-124 (4.25')	8/20/2025		X		C	1		X	X	X		
44	SW-125 (4.25')	8/20/2025		X		C	1		X	X	X		
45	SW-126 (4.25')	8/20/2025		X		C	1		X	X	X		
46	SW-127 (4.25')	8/20/2025		X		C	1		X	X	X		
47	SW-128 (4.25')	8/20/2025		X		C	1		X	X	X		
48	SW-129 (4.25')	8/20/2025		X		C	1		X	X	X		
49	SW-130 (4.25')	8/20/2025		X		C	1		X	X	X		
50	SW-131 (4.25')	8/20/2025		X		C	1		X	X	X		

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
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Page 442 of 540

Page 71 of 72

Chain of Custody

Work Order No: H255190

Page 6 of 7

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	☐ Routine ☑ Rush
Project Number:	2741	Due Date:	72 Hours
Project Location	Lea County, New Mexico		
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Received Intact:	(Yes) No	Thermometer ID:	#140
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	+0.3°c
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	3.9c
Total Containers:		Corrected Temperature:	4.2c

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 4500	Hold	Sample Comments
51	SW-132 (4.25')	8/20/2025		X		C	1		X	X	X		
52	SW-133 (4.25')	8/20/2025		X		C	1		X	X	X		
53	SW-134 (4.25')	8/20/2025		X		C	1		X	X	X		
54	SW-135 (4.25')	8/20/2025		X		C	1		X	X	X		
55	SW-136 (4.25')	8/20/2025		X		C	1		X	X	X		
56	SW-137 (4.25')	8/20/2025		X		C	1		X	X	X		
57	SW-138 (4.25')	8/20/2025		X		C	1		X	X	X		
58	SW-139 (4.25')	8/20/2025		X		C	1		X	X	X		
59	SW-140 (4.25')	8/20/2025		X		C	1		X	X	X		
100	SW-141 (4.25')	8/20/2025		X		C	1		X	X	X		

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas		[signature]	8.20.25/1521

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Page 443 of 540

Chain of Custody

Work Order No: H255164

Page 7 of 7

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	☐ Routine ☑ Rush
Project Number:	2741	Due Date:	72 Hours
Project Location	Lea County, New Mexico		
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Received Intact:	(Yes) No	Thermometer ID:	#140
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	+0.3°c
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	3.9
Total Containers:	3	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 4500	Hold	Sample Comments
01	SW-142 (4.25')	8/20/2025		X		C	1		X	X	X		
02	SW-143 (4.25')	8/20/2025		X		C	1		X	X	X		
03	SW-144 (4.25')	8/20/2025		X		C	1		X	X	X		

Parameters

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas		[signature]	8/20/2025 1521

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CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 26, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: MADURO NORTH FEDERAL 4H

Enclosed are the results of analyses for samples received by the laboratory on 08/21/25 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 137 (4.25') (H255228-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.61	80.6	2.00	2.60	
Toluene*	<0.050	0.050	08/22/2025	ND	1.69	84.4	2.00	3.73	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	1.74	87.0	2.00	4.14	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	5.34	89.0	6.00	3.80	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3680**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	190	95.0	200	6.33	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	205	103	200	6.89	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *61.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *60.0 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 138 (4.25') (H255228-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.61	80.6	2.00	2.60	
Toluene*	<0.050	0.050	08/22/2025	ND	1.69	84.4	2.00	3.73	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	1.74	87.0	2.00	4.14	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	5.34	89.0	6.00	3.80	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3920**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	208	104	200	6.90	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	197	98.7	200	9.66	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *75.7 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *68.9 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 139 (4.25') (H255228-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.61	80.6	2.00	2.60	
Toluene*	<0.050	0.050	08/22/2025	ND	1.69	84.4	2.00	3.73	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	1.74	87.0	2.00	4.14	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	5.34	89.0	6.00	3.80	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3120**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	208	104	200	6.90	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	197	98.7	200	9.66	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *66.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *60.3 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 140 (4.25') (H255228-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.61	80.6	2.00	2.60	
Toluene*	<0.050	0.050	08/22/2025	ND	1.69	84.4	2.00	3.73	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	1.74	87.0	2.00	4.14	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	5.34	89.0	6.00	3.80	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3840**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	208	104	200	6.90	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	197	98.7	200	9.66	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *76.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *69.5 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 141 (4.25') (H255228-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.61	80.6	2.00	2.60	
Toluene*	<0.050	0.050	08/22/2025	ND	1.69	84.4	2.00	3.73	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	1.74	87.0	2.00	4.14	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	5.34	89.0	6.00	3.80	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4160**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	208	104	200	6.90	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	197	98.7	200	9.66	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *70.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *65.1 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 142 (4.25') (H255228-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.61	80.6	2.00	2.60	
Toluene*	<0.050	0.050	08/22/2025	ND	1.69	84.4	2.00	3.73	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	1.74	87.0	2.00	4.14	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	5.34	89.0	6.00	3.80	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4280**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	208	104	200	6.90	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	197	98.7	200	9.66	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *72.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *71.1 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 143 (4.25') (H255228-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.61	80.6	2.00	2.60	
Toluene*	<0.050	0.050	08/22/2025	ND	1.69	84.4	2.00	3.73	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	1.74	87.0	2.00	4.14	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	5.34	89.0	6.00	3.80	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3640**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	208	104	200	6.90	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	197	98.7	200	9.66	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *73.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *67.2 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 144 (4.25') (H255228-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.61	80.6	2.00	2.60	
Toluene*	<0.050	0.050	08/22/2025	ND	1.69	84.4	2.00	3.73	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	1.74	87.0	2.00	4.14	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	5.34	89.0	6.00	3.80	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4240**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	208	104	200	6.90	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	197	98.7	200	9.66	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *65.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *60.0 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 145 (4.25') (H255228-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.61	80.6	2.00	2.60	
Toluene*	<0.050	0.050	08/22/2025	ND	1.69	84.4	2.00	3.73	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	1.74	87.0	2.00	4.14	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	5.34	89.0	6.00	3.80	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.5 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4080**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	208	104	200	6.90	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	197	98.7	200	9.66	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *74.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *68.7 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 146 (4.25') (H255228-10)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.61	80.6	2.00	2.60	
Toluene*	<0.050	0.050	08/22/2025	ND	1.69	84.4	2.00	3.73	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	1.74	87.0	2.00	4.14	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	5.34	89.0	6.00	3.80	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3800**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	208	104	200	6.90	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	197	98.7	200	9.66	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *68.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *62.1 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 147 (4.25') (H255228-11)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.59	79.6	2.00	4.52	QM-07
Toluene*	<0.050	0.050	08/22/2025	ND	1.95	97.4	2.00	2.87	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	2.06	103	2.00	4.20	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	6.48	108	6.00	4.31	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4200**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	208	104	200	6.90	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	197	98.7	200	9.66	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *69.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *63.3 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 148 (4.25') (H255228-12)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.59	79.6	2.00	4.52	
Toluene*	<0.050	0.050	08/22/2025	ND	1.95	97.4	2.00	2.87	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	2.06	103	2.00	4.20	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	6.48	108	6.00	4.31	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3560**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	208	104	200	6.90	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	197	98.7	200	9.66	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *73.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *65.5 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 145 (4.25') (H255228-13)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.59	79.6	2.00	4.52	
Toluene*	<0.050	0.050	08/22/2025	ND	1.95	97.4	2.00	2.87	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	2.06	103	2.00	4.20	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	6.48	108	6.00	4.31	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *118 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	208	104	200	6.90	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	197	98.7	200	9.66	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *79.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *72.7 %* *40.6-153*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 146 (4.25') (H255228-14)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.59	79.6	2.00	4.52	
Toluene*	<0.050	0.050	08/22/2025	ND	1.95	97.4	2.00	2.87	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	2.06	103	2.00	4.20	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	6.48	108	6.00	4.31	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *116 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	208	104	200	6.90	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	197	98.7	200	9.66	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *75.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *70.5 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 147 (4.25') (H255228-15)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.59	79.6	2.00	4.52	
Toluene*	<0.050	0.050	08/22/2025	ND	1.95	97.4	2.00	2.87	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	2.06	103	2.00	4.20	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	6.48	108	6.00	4.31	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *120 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	208	104	200	6.90	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	197	98.7	200	9.66	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *69.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *62.8 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 148 (4.25') (H255228-16)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.59	79.6	2.00	4.52	
Toluene*	<0.050	0.050	08/22/2025	ND	1.95	97.4	2.00	2.87	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	2.06	103	2.00	4.20	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	6.48	108	6.00	4.31	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *118 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	208	104	200	6.90	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	197	98.7	200	9.66	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *65.8 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *62.6 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 149 (4.25') (H255228-17)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.59	79.6	2.00	4.52	
Toluene*	<0.050	0.050	08/22/2025	ND	1.95	97.4	2.00	2.87	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	2.06	103	2.00	4.20	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	6.48	108	6.00	4.31	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	208	104	200	6.90	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	197	98.7	200	9.66	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *71.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *64.4 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 150 (4.25') (H255228-18)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.59	79.6	2.00	4.52	
Toluene*	<0.050	0.050	08/22/2025	ND	1.95	97.4	2.00	2.87	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	2.06	103	2.00	4.20	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	6.48	108	6.00	4.31	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *117 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	208	104	200	6.90	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	197	98.7	200	9.66	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *73.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *67.8 %* *40.6-153*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 151 (4.25') (H255228-19)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.59	79.6	2.00	4.52	
Toluene*	<0.050	0.050	08/22/2025	ND	1.95	97.4	2.00	2.87	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	2.06	103	2.00	4.20	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	6.48	108	6.00	4.31	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *120 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	208	104	200	6.90	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	197	98.7	200	9.66	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *63.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *59.2 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 152 (4.25') (H255228-20)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.59	79.6	2.00	4.52	
Toluene*	<0.050	0.050	08/22/2025	ND	1.95	97.4	2.00	2.87	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	2.06	103	2.00	4.20	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	6.48	108	6.00	4.31	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	208	104	200	6.90	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	197	98.7	200	9.66	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *69.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *62.9 %* *40.6-153*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 153 (4.25') (H255228-21)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.59	79.6	2.00	4.52	
Toluene*	<0.050	0.050	08/22/2025	ND	1.95	97.4	2.00	2.87	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	2.06	103	2.00	4.20	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	6.48	108	6.00	4.31	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	208	104	200	6.90	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	197	98.7	200	9.66	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *70.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *64.1 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 154 (4.25') (H255228-22)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.59	79.6	2.00	4.52	
Toluene*	<0.050	0.050	08/22/2025	ND	1.95	97.4	2.00	2.87	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	2.06	103	2.00	4.20	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	6.48	108	6.00	4.31	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	194	96.8	200	0.915	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	193	96.4	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *69.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *65.8 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 155 (4.25') (H255228-23)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.59	79.6	2.00	4.52	
Toluene*	<0.050	0.050	08/22/2025	ND	1.95	97.4	2.00	2.87	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	2.06	103	2.00	4.20	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	6.48	108	6.00	4.31	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *117 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	194	96.8	200	0.915	
DRO >C10-C28*	**12.7**	10.0	08/22/2025	ND	193	96.4	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *76.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *73.7 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 156 (4.25') (H255228-24)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.59	79.6	2.00	4.52	
Toluene*	<0.050	0.050	08/22/2025	ND	1.95	97.4	2.00	2.87	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	2.06	103	2.00	4.20	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	6.48	108	6.00	4.31	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	194	96.8	200	0.915	
DRO >C10-C28*	**35.7**	10.0	08/22/2025	ND	193	96.4	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *72.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *68.4 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 157 (4.25') (H255228-25)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.59	79.6	2.00	4.52	
Toluene*	<0.050	0.050	08/22/2025	ND	1.95	97.4	2.00	2.87	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	2.06	103	2.00	4.20	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	6.48	108	6.00	4.31	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	194	96.8	200	0.915	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	193	96.4	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *63.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *60.6 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 158 (4.25') (H255228-26)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.59	79.6	2.00	4.52	
Toluene*	<0.050	0.050	08/22/2025	ND	1.95	97.4	2.00	2.87	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	2.06	103	2.00	4.20	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	6.48	108	6.00	4.31	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	194	96.8	200	0.915	
DRO >C10-C28*	**22.2**	10.0	08/22/2025	ND	193	96.4	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *67.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *65.2 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 159 (4.25') (H255228-27)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.59	79.6	2.00	4.52	
Toluene*	<0.050	0.050	08/22/2025	ND	1.95	97.4	2.00	2.87	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	2.06	103	2.00	4.20	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	6.48	108	6.00	4.31	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *115 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	194	96.8	200	0.915	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	193	96.4	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *60.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *56.1 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 160 (4.25') (H255228-28)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.61	80.3	2.00	0.485	
Toluene*	<0.050	0.050	08/22/2025	ND	1.80	90.0	2.00	2.38	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	1.86	93.1	2.00	6.76	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	5.81	96.8	6.00	7.24	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	196	97.9	200	1.94	
DRO >C10-C28*	**15.9**	10.0	08/22/2025	ND	183	91.4	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *69.8 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *66.4 %* *40.6-153*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/21/2025	Sampling Date:	08/21/2025
Reported:	08/26/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 161 (4.25') (H255228-29)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2025	ND	1.61	80.3	2.00	0.485	
Toluene*	<0.050	0.050	08/22/2025	ND	1.80	90.0	2.00	2.38	
Ethylbenzene*	<0.050	0.050	08/22/2025	ND	1.86	93.1	2.00	6.76	
Total Xylenes*	<0.150	0.150	08/22/2025	ND	5.81	96.8	6.00	7.24	
Total BTEX	<0.300	0.300	08/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/22/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	196	97.9	200	1.94	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	183	91.4	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *70.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *71.3 %* *40.6-153*

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H255228

Page 1 of 3

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	☐ Routine ☑ Rush
Project Number:	2741	Due Date:	72 Hours
Project Location	Lea County, New Mexico		
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	#140
Cooler Custody Seals:	Yes No N/A	Correction Factor:	+0.3°C
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.9°C
Total Containers:		Corrected Temperature:	2.2°C

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Hold
CS-137 (4.25')	8/21/2025		X		C	1		X	X	X	
CS-138 (4.25')	8/21/2025		X		C	1		X	X	X	
CS-139 (4.25')	8/21/2025		X		C	1		X	X	X	
CS-140 (4.25')	8/21/2025		X		C	1		X	X	X	
CS-141 (4.25')	8/21/2025		X		C	1		X	X	X	
CS-142 (4.25')	8/21/2025		X		C	1		X	X	X	
CS-143 (4.25')	8/21/2025		X		C	1		X	X	X	
CS-144 (4.25')	8/21/2025		X		C	1		X	X	X	
CS-145 (4.25')	8/21/2025		X		C	1		X	X	X	
CS-146 (4.25')	8/21/2025		X		C	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:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas	8-21-25 1230	Tamara Latabyk	

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

Page 476 of 540

Chain of Custody

Work Order No: H255228

Page 2 of 3

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	
Project Number:	2741	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	72 Hours
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	#140
Cooler Custody Seals:	Yes No N/A	Correction Factor:	+0.3°C
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.9°C
Total Containers:		Corrected Temperature:	2.2°C

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 4500	Hold	Sample Comments
CS-147 (4.25')	8/21/2025		X		C	1		X	X	X		
CS-148 (4.25')	8/21/2025		X		C	1		X	X	X		
SW-145 (4.25')	8/21/2025		X		C	1		X	X	X		
SW-146 (4.25')	8/21/2025		X		C	1		X	X	X		
SW-147 (4.25')	8/21/2025		X		C	1		X	X	X		
SW-148 (4.25')	8/21/2025		X		C	1		X	X	X		
SW-149 (4.25')	8/21/2025		X		C	1		X	X	X		
SW-150 (4.25')	8/21/2025		X		C	1		X	X	X		
SW-151 (4.25')	8/21/2025		X		C	1		X	X	X		
SW-152 (4.25')	8/21/2025		X		C	1		X	X	X		

Parameters

ANALYSIS REQUEST

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Felipe Vargas	8-21-25 1230	Tamara Oldaker	

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

Chain of Custody

Work Order No: H255222

Page 3 of 3

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	☐ Routine ☑ Rush
Project Number:	2741	Due Date:	72 Hours
Project Location	Lea County, New Mexico		
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Received Intact:	(Yes) No	Thermometer ID:	#140
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	+0.3°C
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.9°C
Total Containers:		Corrected Temperature:	2.2°C

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 4500	Hold	Sample Comments
SW-153 (4.25')	8/21/2025		X		C	1		X	X	X		
SW-154 (4.25')	8/21/2025		X		C	1		X	X	X		
SW-155 (4.25')	8/21/2025		X		C	1		X	X	X		
SW-156 (4.25')	8/21/2025		X		C	1		X	X	X		
SW-157 (4.25')	8/21/2025		X		C	1		X	X	X		
SW-158 (4.25')	8/21/2025		X		C	1		X	X	X		
SW-159 (4.25')	8/21/2025		X		C	1		X	X	X		
SW-160 (4.25')	8/21/2025		X		C	1		X	X	X		
SW-161 (4.25')	8/21/2025		X		C	1		X	X	X		

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas	8-21-25-1530	Tamara Oldaker	

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 27, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: MADURO NORTH FEDERAL 4H

Enclosed are the results of analyses for samples received by the laboratory on 08/22/25 12:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 149 (2.0') (H255256-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	1.27	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.80	89.9	2.00	4.96	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.53	92.2	6.00	5.47	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1220**	16.0	08/25/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	199	99.4	200	3.93	
DRO >C10-C28*	**47.3**	10.0	08/22/2025	ND	186	93.1	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *90.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *94.1 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 150 (2.0') (H255256-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	1.27	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.80	89.9	2.00	4.96	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.53	92.2	6.00	5.47	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1200**	16.0	08/25/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	199	99.4	200	3.93	
DRO >C10-C28*	**47.3**	10.0	08/22/2025	ND	186	93.1	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *102 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *100 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 151 (2.0') (H255256-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	1.27	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.80	89.9	2.00	4.96	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.53	92.2	6.00	5.47	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1040**	16.0	08/25/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	199	99.4	200	3.93	
DRO >C10-C28*	**72.0**	10.0	08/22/2025	ND	186	93.1	200	2.26	
EXT DRO >C28-C36	**17.2**	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *82.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *78.8 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 152 (2.0') (H255256-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	1.27	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.80	89.9	2.00	4.96	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.53	92.2	6.00	5.47	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.5 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**672**	16.0	08/25/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	199	99.4	200	3.93	
DRO >C10-C28*	**16.2**	10.0	08/22/2025	ND	186	93.1	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *95.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *91.3 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 153 (2.0') (H255256-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	1.27	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.80	89.9	2.00	4.96	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.53	92.2	6.00	5.47	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**656**	16.0	08/25/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	199	99.4	200	3.93	
DRO >C10-C28*	**17.6**	10.0	08/22/2025	ND	186	93.1	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *92.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *87.9 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 154 (2.0') (H255256-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	1.27	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.80	89.9	2.00	4.96	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.53	92.2	6.00	5.47	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**944**	16.0	08/25/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	199	99.4	200	3.93	
DRO >C10-C28*	**99.8**	10.0	08/22/2025	ND	186	93.1	200	2.26	
EXT DRO >C28-C36	**24.5**	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *101 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *101 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 155 (2.0') (H255256-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	1.27	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.80	89.9	2.00	4.96	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.53	92.2	6.00	5.47	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**240**	16.0	08/25/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	199	99.4	200	3.93	
DRO >C10-C28*	**18.1**	10.0	08/22/2025	ND	186	93.1	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *104 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *101 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 156 (2.0') (H255256-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	1.27	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.80	89.9	2.00	4.96	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.53	92.2	6.00	5.47	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**240**	16.0	08/25/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	199	99.4	200	3.93	
DRO >C10-C28*	**17.4**	10.0	08/22/2025	ND	186	93.1	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *97.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *93.8 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 157 (1.5') (H255256-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	1.27	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.80	89.9	2.00	4.96	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.53	92.2	6.00	5.47	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.5 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**896**	16.0	08/25/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	199	99.4	200	3.93	
DRO >C10-C28*	**33.7**	10.0	08/22/2025	ND	186	93.1	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *99.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *96.1 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 158 (1.5') (H255256-10)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	1.27	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.80	89.9	2.00	4.96	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.53	92.2	6.00	5.47	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**800**	16.0	08/25/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	199	99.4	200	3.93	
DRO >C10-C28*	**39.7**	10.0	08/22/2025	ND	186	93.1	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *89.8 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *89.4 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 159 (1.5') (H255256-11)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	1.27	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.80	89.9	2.00	4.96	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.53	92.2	6.00	5.47	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	08/25/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	199	99.4	200	3.93	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	186	93.1	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *98.8 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *97.8 %* *40.6-153*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 160 (1.5') (H255256-12)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	1.27	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.80	89.9	2.00	4.96	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.53	92.2	6.00	5.47	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**704**	16.0	08/25/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	199	99.4	200	3.93	
DRO >C10-C28*	**19.0**	10.0	08/22/2025	ND	186	93.1	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *95.7 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *91.3 %* *40.6-153*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: CS - 161 (1.5') (H255256-13)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	1.27	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.80	89.9	2.00	4.96	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.53	92.2	6.00	5.47	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/25/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	199	99.4	200	3.93	
DRO >C10-C28*	**10.9**	10.0	08/23/2025	ND	186	93.1	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane *92.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *91.6 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 162 (2.0') (H255256-14)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	1.27	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.80	89.9	2.00	4.96	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.53	92.2	6.00	5.47	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	08/25/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	199	99.4	200	3.93	
DRO >C10-C28*	<10.0	10.0	08/23/2025	ND	186	93.1	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane *99.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *95.9 %* *40.6-153*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 163 (2.0') (H255256-15)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	1.27	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.80	89.9	2.00	4.96	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.53	92.2	6.00	5.47	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/25/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	199	99.4	200	3.93	
DRO >C10-C28*	<10.0	10.0	08/23/2025	ND	186	93.1	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane *93.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *89.8 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 164 (2.0') (H255256-16)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	1.27	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.80	89.9	2.00	4.96	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.53	92.2	6.00	5.47	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/25/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	199	99.4	200	3.93	
DRO >C10-C28*	<10.0	10.0	08/23/2025	ND	186	93.1	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane *96.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *94.6 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 165 (2.0') (H255256-17)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	1.27	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.80	89.9	2.00	4.96	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.53	92.2	6.00	5.47	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	08/25/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	199	99.4	200	3.93	
DRO >C10-C28*	<10.0	10.0	08/23/2025	ND	186	93.1	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane *103 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *99.6 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 166 (2.0') (H255256-18)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	1.27	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.80	89.9	2.00	4.96	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.53	92.2	6.00	5.47	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	08/25/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	199	99.4	200	3.93	
DRO >C10-C28*	<10.0	10.0	08/23/2025	ND	186	93.1	200	2.26	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane *97.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *93.3 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 167 (2.0') (H255256-19)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	1.27	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.80	89.9	2.00	4.96	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.53	92.2	6.00	5.47	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**224**	16.0	08/25/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	200	100	200	3.34	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	184	91.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *117 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *117 %* *40.6-153*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 168 (0.5') (H255256-20)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	1.27	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	3.43	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.80	89.9	2.00	4.96	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.53	92.2	6.00	5.47	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/25/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2025	ND	200	100	200	3.34	
DRO >C10-C28*	<10.0	10.0	08/22/2025	ND	184	91.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/22/2025	ND					

Surrogate: 1-Chlorooctane *110 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *110 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 169 (1.5') (H255256-21)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	8.13	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	5.80	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.79	89.5	2.00	4.15	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.47	91.2	6.00	3.56	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	08/25/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	200	100	200	3.34	
DRO >C10-C28*	<10.0	10.0	08/23/2025	ND	184	91.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane *116 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *120 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 170 (1.5') (H255256-22)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	8.13	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	5.80	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.79	89.5	2.00	4.15	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.47	91.2	6.00	3.56	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**208**	16.0	08/25/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	200	100	200	3.34	
DRO >C10-C28*	<10.0	10.0	08/23/2025	ND	184	91.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane *106 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *106 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 171 (1.5') (H255256-23)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	8.13	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	5.80	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.79	89.5	2.00	4.15	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.47	91.2	6.00	3.56	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**192**	16.0	08/25/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	200	100	200	3.34	
DRO >C10-C28*	<10.0	10.0	08/23/2025	ND	184	91.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane *116 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *117 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 172 (1.5') (H255256-24)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	8.13	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	5.80	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.79	89.5	2.00	4.15	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.47	91.2	6.00	3.56	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/25/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	200	100	200	3.34	
DRO >C10-C28*	<10.0	10.0	08/23/2025	ND	184	91.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane *116 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *117 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 173 (1.5') (H255256-25)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	8.13	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	5.80	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.79	89.5	2.00	4.15	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.47	91.2	6.00	3.56	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	08/25/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	200	100	200	3.34	
DRO >C10-C28*	<10.0	10.0	08/23/2025	ND	184	91.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane *114 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *114 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 92 (4.25') (H255256-26)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	8.13	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	5.80	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.79	89.5	2.00	4.15	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.47	91.2	6.00	3.56	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: KH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/25/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	200	100	200	3.34	
DRO >C10-C28*	**19.6**	10.0	08/23/2025	ND	184	91.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane *109 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *109 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 93 (4.25') (H255256-27)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	8.13	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	5.80	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.79	89.5	2.00	4.15	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.47	91.2	6.00	3.56	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/25/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	200	100	200	3.34	
DRO >C10-C28*	**18.1**	10.0	08/23/2025	ND	184	91.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane *101 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *100 %* *40.6-153*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/22/2025	Sampling Date:	08/22/2025
Reported:	08/27/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 95 (4.25') (H255256-28)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2025	ND	1.58	79.2	2.00	8.13	
Toluene*	<0.050	0.050	08/25/2025	ND	1.73	86.7	2.00	5.80	
Ethylbenzene*	<0.050	0.050	08/25/2025	ND	1.79	89.5	2.00	4.15	
Total Xylenes*	<0.150	0.150	08/25/2025	ND	5.47	91.2	6.00	3.56	
Total BTEX	<0.300	0.300	08/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: KH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/25/2025	ND	432	108	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2025	ND	200	100	200	3.34	
DRO >C10-C28*	**19.3**	10.0	08/23/2025	ND	184	91.8	200	2.83	
EXT DRO >C28-C36	<10.0	10.0	08/23/2025	ND					

Surrogate: 1-Chlorooctane *108 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *106 %* *40.6-153*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Page 508 of 540

Chain of Custody

Work Order No: H25525

Page 1 of 3

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	☐ Routine ☑ Rush
Project Number:	2741	Due Date:	72 Hours
Project Location	Lea County, New Mexico		
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	#140
Cooler Custody Seals:	Yes No N/A	Correction Factor:	+0.3°C
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.9°C
Total Containers:		Corrected Temperature:	5.2°C

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: Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Hold	Sample Comments
CS-149 (2.0')	8/22/2025		X		C	1		X	X	X		
CS-150 (2.0')	8/22/2025		X		C	1		X	X	X		
CS-151 (2.0')	8/22/2025		X		C	1		X	X	X		
CS-152 (2.0')	8/22/2025		X		C	1		X	X	X		
CS-153 (2.0')	8/22/2025		X		C	1		X	X	X		
CS-154 (2.0')	8/22/2025		X		C	1		X	X	X		
CS-155 (2.0')	8/22/2025		X		C	1		X	X	X		
CS-156 (2.0')	8/22/2025		X		C	1		X	X	X		
CS-157 (1.5')	8/22/2025		X		C	1		X	X	X		
CS-158 (1.5')	8/22/2025		X		C	1		X	X	X		

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas	8-22-25 1320	Tamara Oldaker	

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

Page 509 of 540

Page 32 of 33

Chain of Custody

Work Order No: H255254

Page 2 of 3

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	☐ Routine ☑ Rush
Project Number:	2741	Due Date:	72 Hours
Project Location	Lea County, New Mexico		
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	#140
Cooler Custody Seals:	Yes No N/A	Correction Factor:	+0.3c
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.9c
Total Containers:		Corrected Temperature:	5.2c

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 4500	Hold	Sample Comments
CS-159 (1.5')	8/22/2025		X		C	1		X	X	X		
CS-160 (1.5')	8/22/2025		X		C	1		X	X	X		
CS-161 (1.5')	8/22/2025		X		C	1		X	X	X		
SW-162 (2.0')	8/22/2025		X		C	1		X	X	X		
SW-163 (2.0')	8/22/2025		X		C	1		X	X	X		
SW-164 (2.0')	8/22/2025		X		C	1		X	X	X		
SW-165 (2.0')	8/22/2025		X		C	1		X	X	X		
SW-166 (2.0')	8/22/2025		X		C	1		X	X	X		
SW-167 (2.0')	8/22/2025		X		C	1		X	X	X		
SW-168 (0.5')	8/22/2025		X		C	1		X	X	X		

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas	8-22-25-1320	Tamara Nichols	

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

Page 510 of 540

Page 33 of 33

Chain of Custody

Work Order No: H255250

Page 3 of 3

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	
Project Number:	2741	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	72 Hours
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	#140
Cooler Custody Seals:	Yes No N/A	Correction Factor:	+0.3°C
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.9°C
Total Containers:		Corrected Temperature:	5.2°C

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 4500	Hold	Sample Comments
SW-169 (1.5')	8/22/2025		X		C	1		X	X	X		
SW-170 (1.5')	8/22/2025		X		C	1		X	X	X		
SW-171 (1.5')	8/22/2025		X		C	1		X	X	X		
SW-172 (1.5')	8/22/2025		X		C	1		X	X	X		
SW-173 (1.5')	8/22/2025		X		C	1		X	X	X		
SW-92 (4.25')	8/22/2025		X		C	1		X	X	X		
SW-93 (4.25')	8/22/2025		X		C	1		X	X	X		
SW-95 (4.25')	8/22/2025		X		C			X	X	X		

Parameters

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas	8-22-25 1200		

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 18, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: MADURO NORTH FEDERAL 4H

Enclosed are the results of analyses for samples received by the laboratory on 08/13/25 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/13/2025	Sampling Date:	08/13/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 51 (4.25') (H255018-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2025	ND	1.78	89.2	2.00	0.0132	
Toluene*	<0.050	0.050	08/14/2025	ND	1.87	93.4	2.00	0.178	
Ethylbenzene*	<0.050	0.050	08/14/2025	ND	1.85	92.7	2.00	0.493	
Total Xylenes*	<0.150	0.150	08/14/2025	ND	5.45	90.8	6.00	0.620	
Total BTEX	<0.300	0.300	08/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/14/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2025	ND	225	112	200	3.34	
DRO >C10-C28*	<10.0	10.0	08/14/2025	ND	216	108	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	08/14/2025	ND					

Surrogate: 1-Chlorooctane *84.5 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *82.5 %* *40.6-153*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/13/2025	Sampling Date:	08/13/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 52 (4.25') (H255018-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2025	ND	1.78	89.2	2.00	0.0132	
Toluene*	<0.050	0.050	08/14/2025	ND	1.87	93.4	2.00	0.178	
Ethylbenzene*	<0.050	0.050	08/14/2025	ND	1.85	92.7	2.00	0.493	
Total Xylenes*	<0.150	0.150	08/14/2025	ND	5.45	90.8	6.00	0.620	
Total BTEX	<0.300	0.300	08/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/14/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2025	ND	225	112	200	3.34	
DRO >C10-C28*	<10.0	10.0	08/14/2025	ND	216	108	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	08/14/2025	ND					

Surrogate: 1-Chlorooctane *85.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *81.0 %* *40.6-153*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/13/2025	Sampling Date:	08/13/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 53 (4.25') (H255018-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2025	ND	1.78	89.2	2.00	0.0132	
Toluene*	<0.050	0.050	08/14/2025	ND	1.87	93.4	2.00	0.178	
Ethylbenzene*	<0.050	0.050	08/14/2025	ND	1.85	92.7	2.00	0.493	
Total Xylenes*	<0.150	0.150	08/14/2025	ND	5.45	90.8	6.00	0.620	
Total BTEX	<0.300	0.300	08/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.0 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/14/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2025	ND	225	112	200	3.34	
DRO >C10-C28*	<10.0	10.0	08/14/2025	ND	216	108	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	08/14/2025	ND					

Surrogate: 1-Chlorooctane *82.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *77.1 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/13/2025	Sampling Date:	08/13/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 55 (4.25') (H255018-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2025	ND	1.78	89.2	2.00	0.0132	
Toluene*	<0.050	0.050	08/14/2025	ND	1.87	93.4	2.00	0.178	
Ethylbenzene*	<0.050	0.050	08/14/2025	ND	1.85	92.7	2.00	0.493	
Total Xylenes*	<0.150	0.150	08/14/2025	ND	5.45	90.8	6.00	0.620	
Total BTEX	<0.300	0.300	08/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/14/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2025	ND	225	112	200	3.34	
DRO >C10-C28*	<10.0	10.0	08/14/2025	ND	216	108	200	2.94	
EXT DRO >C28-C36	<10.0	10.0	08/14/2025	ND					

Surrogate: 1-Chlorooctane *86.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *80.1 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/13/2025	Sampling Date:	08/13/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 56 (4.25') (H255018-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2025	ND	1.78	89.2	2.00	0.0132	
Toluene*	<0.050	0.050	08/14/2025	ND	1.87	93.4	2.00	0.178	
Ethylbenzene*	<0.050	0.050	08/14/2025	ND	1.85	92.7	2.00	0.493	
Total Xylenes*	<0.150	0.150	08/14/2025	ND	5.45	90.8	6.00	0.620	
Total BTEX	<0.300	0.300	08/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/14/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2025	ND	187	93.3	200	4.10	
DRO >C10-C28*	<10.0	10.0	08/14/2025	ND	203	101	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	08/14/2025	ND					

Surrogate: 1-Chlorooctane *95.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *93.6 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/13/2025	Sampling Date:	08/13/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 57 (4.25') (H255018-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2025	ND	1.87	93.6	2.00	13.9	
Toluene*	<0.050	0.050	08/14/2025	ND	1.89	94.6	2.00	14.4	
Ethylbenzene*	<0.050	0.050	08/14/2025	ND	1.89	94.6	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/14/2025	ND	5.76	96.0	6.00	14.7	
Total BTEX	<0.300	0.300	08/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/14/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2025	ND	187	93.3	200	4.10	
DRO >C10-C28*	<10.0	10.0	08/14/2025	ND	203	101	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	08/14/2025	ND					

Surrogate: 1-Chlorooctane *93.7 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *90.6 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/13/2025	Sampling Date:	08/13/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 58 (4.25') (H255018-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2025	ND	1.87	93.6	2.00	13.9	
Toluene*	<0.050	0.050	08/14/2025	ND	1.89	94.6	2.00	14.4	
Ethylbenzene*	<0.050	0.050	08/14/2025	ND	1.89	94.6	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/14/2025	ND	5.76	96.0	6.00	14.7	
Total BTEX	<0.300	0.300	08/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/14/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2025	ND	187	93.3	200	4.10	
DRO >C10-C28*	<10.0	10.0	08/14/2025	ND	203	101	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	08/14/2025	ND					

Surrogate: 1-Chlorooctane *93.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *91.5 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/13/2025	Sampling Date:	08/13/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 60 (4.25') (H255018-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2025	ND	1.87	93.6	2.00	13.9	
Toluene*	<0.050	0.050	08/14/2025	ND	1.89	94.6	2.00	14.4	
Ethylbenzene*	<0.050	0.050	08/14/2025	ND	1.89	94.6	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/14/2025	ND	5.76	96.0	6.00	14.7	
Total BTEX	<0.300	0.300	08/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/14/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2025	ND	187	93.3	200	4.10	
DRO >C10-C28*	<10.0	10.0	08/14/2025	ND	203	101	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	08/14/2025	ND					

Surrogate: 1-Chlorooctane *96.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *93.6 %* *40.6-153*

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Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/13/2025	Sampling Date:	08/13/2025
Reported:	08/18/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: SW - 61 (4.25') (H255018-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2025	ND	1.87	93.6	2.00	13.9	
Toluene*	<0.050	0.050	08/14/2025	ND	1.89	94.6	2.00	14.4	
Ethylbenzene*	<0.050	0.050	08/14/2025	ND	1.89	94.6	2.00	14.9	
Total Xylenes*	<0.150	0.150	08/14/2025	ND	5.76	96.0	6.00	14.7	
Total BTEX	<0.300	0.300	08/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/14/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2025	ND	187	93.3	200	4.10	
DRO >C10-C28*	<10.0	10.0	08/14/2025	ND	203	101	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	08/14/2025	ND					

Surrogate: 1-Chlorooctane *90.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *87.7 %* *40.6-153*

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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 522 of 540

Chain of Custody

Work Order No: H255018

Page 1 of 1

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around		Pres. Code	
Project Number:	2741	☐ Routine	☑ Rush		
Project Location	Lea County, New Mexico	Due Date:	72 Hours		
Sampler's Name:	FV				
PO #:					

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)	
Received Intact:	(Yes) No	Thermometer ID:	#140	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	+0.3°c	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.7°c	
Total Containers:		Corrected Temperature:	2.0°c	

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 4500	Hold	Sample Comments
SW-51 (4.25')	8/13/2025		X		C	1	X	X	X		
SW-52 (4.25')	8/13/2025		X		C	1	X	X	X		
SW-53 (4.25')	8/13/2025		X		C	1	X	X	X		
SW-55 (4.25')	8/13/2025		X		C	1	X	X	X		
SW-56 (4.25')	8/13/2025		X		C	1	X	X	X		
SW-57 (4.25')	8/13/2025		X		C	1	X	X	X		
SW-58 (4.25')	8/13/2025		X		C	1	X	X	X		
SW-60 (4.25')	8/13/2025		X		C	1	X	X	X		
SW-61 (4.25')	8/13/2025		X		C	1	X	X	X		

1 2 3 4 5 6 7 8 9

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas	8-13-25 1420	Tamara Latchford	

Received by OCD: 9/24/2025 2:47:43 PM

Released to Imaging: 9/25/2025 3:18:41 PM

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 11, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: MADURO NORTH FEDERAL 4H

Enclosed are the results of analyses for samples received by the laboratory on 08/05/25 15:39.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CARMONA RESOURCES
ASHTON THIELKE
310 W WALL ST, SUITE 500
MIDLAND TX, 79701
Fax To:

Received:	08/05/2025	Sampling Date:	08/05/2025
Reported:	08/11/2025	Sampling Type:	Soil
Project Name:	MADURO NORTH FEDERAL 4H	Sampling Condition:	Cool & Intact
Project Number:	2741	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NM		

Sample ID: BACKFILL (H254777-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2025	ND	1.90	95.1	2.00	4.66	
Toluene*	<0.050	0.050	08/06/2025	ND	1.99	99.3	2.00	5.54	
Ethylbenzene*	<0.050	0.050	08/06/2025	ND	2.01	101	2.00	4.84	
Total Xylenes*	<0.150	0.150	08/06/2025	ND	6.07	101	6.00	4.51	
Total BTEX	<0.300	0.300	08/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: KH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/07/2025	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2025	ND	204	102	200	5.43	
DRO >C10-C28*	<10.0	10.0	08/06/2025	ND	199	99.6	200	4.43	
EXT DRO >C28-C36	<10.0	10.0	08/06/2025	ND					

Surrogate: 1-Chlorooctane *99.4 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *103 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

Page 526 of 540

Chain of Custody

Work Order No: H254727

Page 4 of 4

Page 1 of 1

Project Manager:	Ashton Thielke	Bill to: (if different)	Laci Luig
Company Name:	Carmona Resources	Company Name:	Cimarex Energy
Address:	310 W Wall St Ste 500	Address:	600 N Marienfield St, Suite 600
City, State ZIP:	Midland TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-813-8988	Email:	laci.luig@coterra.com & ashton.thielke@coterra.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:	Maduro North Federal 4H	Turn Around	☑ Routine ☐ Rush
Project Number:	2741	Due Date:	Normal
Project Location	Lea County, New Mexico		
Sampler's Name:	FV		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Received Intact:	(Yes) No	Thermometer ID:	#140
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	+0.3°C
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	3.8°C
Total Containers:		Corrected Temperature:	4.1°C

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 4500	Hold	Sample Comments
1 Backfill	8/5/2025		X		C	1		X	X	X		

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Fabian Vargas		[signature]	8526 1539

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APPENDIX F

CARMONA RESOURCES

Soil Map—Lea County, New Mexico



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Received by OCD: 9/24/2025 2:47:43 PM

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 21, Sep 3, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

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Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KD	Kermit-Palomas fine sands, 0 to 12 percent slopes	2.6	100.0%
Totals for Area of Interest		**2.6**	**100.0%**

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Lea County, New Mexico

KD—Kermit-Palomas fine sands, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpv
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 12 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 205 days
Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 70 percent
Palomas and similar soils: 20 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand
C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 3 to 12 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A
Ecological site: R070BD005NM - Deep Sand
Hydric soil rating: No

Description of Palomas

Setting

Landform: Dunes
Landform position (two-dimensional): Shoulder, backslope, footslope
Landform position (three-dimensional): Side slope
Down-slope shape: Concave, convex, linear
Across-slope shape: Convex
Parent material: Alluvium derived from sandstone

Typical profile

A - 0 to 16 inches: fine sand
Bt - 16 to 60 inches: sandy clay loam
Bk - 60 to 66 inches: sandy loam

Properties and qualities

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 50 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Pyote

Percent of map unit: 4 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Maljamar

Percent of map unit: 4 percent

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Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Palomas
Percent of map unit: 1 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Dune land
Percent of map unit: 1 percent
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 21, Sep 3, 2024

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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

QUESTIONS

Action 509142

QUESTIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 509142
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2512052637**
Incident Name	**NAPP2512052637 MADURO NORTH FEDERAL 4H @ 30-025-39998**
Incident Type	**Produced Water Release**
Incident Status	**Deferral Request Received**
Incident Well	**[30-025-39998] NORTH MADURO FEDERAL UNIT #004H**
Incident Facility	**[fAPP2202546495] MADURO NORTH FED 4H**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MADURO NORTH FEDERAL 4H
Date Release Discovered	04/29/2025
Surface Owner	Federal

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	Cause: Human Error | Tank (Any) | Crude Oil | Released: 40 BBL | Recovered: 40 BBL | Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Human Error | Tank (Any) | Produced Water | Released: 920 BBL | Recovered: 835 BBL | Lost: 85 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)	We had a reportable release at the North Maduro Federal 4H due to an offset frac communicating with the well. Fluid flowed to the facility, resulting in production tanks overrunning into the lined containment. Once the containment filled, the fluid over-ran the walls and flowed onto the well pad, pasture and along a pipeline ROW. This incident resulted in an estimated release of 960 barrels fluid into the containment, well pad and pasture. Vac trucks were able to recover all fluids from the containment with an additional 40 barrels oil recovered from the pasture and ROW. The impacted soils will be assessed and remediated in the coming weeks.

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

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 509142
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**

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: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 09/24/2025

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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 509142
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
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 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 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	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 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	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

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)	27600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	5207
GRO+DRO (EPA SW-846 Method 8015M)	4588
BTEX (EPA SW-846 Method 8021B or 8260B)	2.6
Benzene (EPA SW-846 Method 8021B or 8260B)	0
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	07/29/2025
On what date will (or did) the final sampling or liner inspection occur	07/30/2025
On what date will (or was) the remediation complete(d)	08/22/2025
What is the estimated surface area (in square feet) that will be reclaimed	24906
What is the estimated volume (in cubic yards) that will be reclaimed	4200
What is the estimated surface area (in square feet) that will be remediated	30974
What is the estimated volume (in cubic yards) that will be remediated	4448
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: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 509142
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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	fEEM0112342028 LEA LAND LANDFILL
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: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 09/24/2025
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.	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

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	Action Number: 509142
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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	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Due to safety concerns surrounding a utility pole and guy wire anchor, a 2'-5' buffer zone will be deferred per NMAC 19.15.29.12.C.2. Removing soil within that buffer zone could potentially cause structural instability and might result in additional releases in the future, as backfill material can shift and settle over time. Additionally, a major powerline deconstruction would have to take place to remove the small area of impact remaining in place. These powerlines and poles are the last along the system and dead end at the facility. Once this facility is P/A'd, the poles/lines will be removed at the same time as there are no additional facilities past this point. The deferred areas are defined by the following composite deferral sidewall samples: SW-62 through SW-69.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	92
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	15
Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	
Enter the facility ID (f#) on which this deferral should be granted	fAPP2202546495 MADURO NORTH FED 4H
Enter the well API (30-) on which this deferral should be granted	*Not answered.*
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
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: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 09/24/2025

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QUESTIONS (continued)

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**495884**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**08/20/2025**
What was the (estimated) number of samples that were to be gathered	**150**
What was the sampling surface area in square feet	**20000**

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	No

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CONDITIONS

Operator: CIMAREX ENERGY CO. OF COLORADO 6001 Deauville Blvd Midland, TX 79706	OGRID: 162683
	Action Number: 509142
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
scwells	Deferral approved. Deferral of SW-62 through SW-69 is approved until plugging and abandonment or a major facility deconstruction, whichever comes first. A complete and accurate remediation report and/or reclamation report will need to be submitted at that time.	9/25/2025