CARMONA RESOURCES

SITE INFORMATION

Closure Report
Lea Unit #044H & #045H
Lea County, New Mexico
Unit M Sec 01 T20S R34E
32.596628°, -103.520177°

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

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

CARMONA RESOURCES

Incident ID: NRM2024760291
Crude Oil Release
Point of Release: Stuffing box failed
Release Date: 08.17.2020
Volume Released: 15 Barrels of Crude Oil
Volume Recovered: 0 Barrels of Crude Oil

Incident ID: NCH1903249514
Crude Oil Release
Point of Release: Stuffing box blowout
Release Date: 12.05.2018
Volume Released: 42 Barrels of Crude Oil
Volume Recovered: 30 Barrels of Crude Oil

CARMONA RESOURCES

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APPENDICES

310 West Wall Street, Suite 500
Midland TX, 79701
432.813.1992

CARMONA RESOURCES

September 8, 2025

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

Re: Closure Report
Lea Unit 44H & 45H
Incident ID: NRM2024760291 & NCH1903249514
Coterra Energy Operating Co.
Site Location: Unit M, S01, T20S, R34E
(Lat 32.596628°, Long -103.520177°)
Lea County, New Mexico

To whom it may concern:

On behalf of Coterra Energy Operating Co. (Coterra), Carmona Resources, LLC has prepared this letter to document site assessment and remediation activities for the Lea Unit 44H & 45H release. The site is located at 32.596628°, -103.520177° within Unit M, S01, T20S, R34E, in Lea County, New Mexico (Figures 1 and 2).

1.0 Site Information and Background

NRM2024760291

Based on the Initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release was discovered on August 17, 2020, due to the stuffing box failing at the well head. It resulted in approximately forty-two (42) barrels of crude oil being released, with approximately thirty (30) barrels of crude oil recovered. The spill boundaries are shown in Figure 3. The Initial C-141 form is attached in Appendix C.

NCH1903249514

Based on information obtained from the NMOCD, the release was discovered on December 5, 2018, due to a blowout at the stuffing box. It resulted in approximately fifteen (15) barrels of crude oil being released, with zero (0) barrels of crude oil recovered. The spill boundaries are shown in Figure 3. The information obtained from the NMOCD 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. On September 3, 2025, H&R Enterprises was onsite to drill a groundwater determination bore to 105 feet below ground surface (ft. bgs) within a 0.50-mile radius of the location. The groundwater determination bore is located approximately 0.30 miles South of the site within S12, T20S, R34E (32.592222°, -103.519306°). No water was detected after 72 hours. A copy of the associated well log is attached in Appendix D.

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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: 2,500 mg/kg (GRO + DRO + MRO).
- TPH: 1,000 mg/kg (GRO + DRO).
- Chloride: 20,000 mg/kg.

4.0 Site Assessment Activities

Initial Assessment

On May 13, 2025, Carmona Resources personnel performed site assessment activities to evaluate soil impacts stemming from the release. A total of five (5) sample points (S-1 through S-5) were installed to total depths ranging from surface to 9.0 ft bgs inside and surrounding the release area. See Figure 3 for the sample locations. For chemical analysis, the soil samples were collected and placed directly into laboratory-provided sample containers, stored on ice, and transported under the proper chain-of-custody protocol to Eurofins Labs in Midland, Texas. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015, modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8021B, and Chloride by EPA method 300.0. The laboratory reports, including analytical methods, results, and chain-of-custody documents, are attached in Appendix E.

Vertical Delineation

Vertical delineation was achieved in all areas. Refer to Table 1. All samples were below the regulatory requirements for Benzene, total BTEX, TPH, and Chloride concentrations. Refer to Table 1.

5.0 Remediation Activities

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 June 2, 2025, per Subsection D of 19.15.29.12 NMAC. See Appendix C. The area of S-1 was excavated to a depth of 1.5’ bgs. A total of two (2) confirmation floor samples were collected (CS-1 and CS-2), and four (4) sidewall samples (SW-1 through SW-4) were collected every 200 square feet to ensure the proper removal of the contaminated soils. Additionally, seven (7) horizontal samples (H-1 through H-7) were collected to further define the spill area. 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. The excavation depths and confirmation sample locations are shown in Figure 4.

Horizontal Delineation

Horizontal delineation was achieved in all areas. Refer to Table 1. All samples were below the regulatory requirements for Benzene, total BTEX, TPH, and Chloride concentrations. Refer to Table 1.

All final confirmation samples were below the regulatory requirements for Benzene, total BTEX, TPH, and Chloride concentrations. Refer to Table 2.

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Before the excavation was backfilled, a composite sample of the backfill material was collected on June 9, 2025, to ensure the material was clean per NMOCD standards. The backfill material was sourced from a nearby stockpile located at 32.597024°, -103.519570°. Refer to Table 2. Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 400 square feet of contamination was remediated, resulting in 25 cubic yards of material excavated and transported offsite for proper disposal.

6.0 Conclusions

Based on the assessment results and the analytical data, no further actions are required at the site. Coterra formally requests the closure of the spill. Coterra is requesting this incident to be closed for all aspects of 19.15.29.12 & 13. The entire area will be reclaimed and revegetated during normal P/A activities per NMAC 19.15.29.13. If you have any questions regarding this report or need additional information, please contact us at 432-813-8988.

Sincerely,
Carmona Resources, LLC

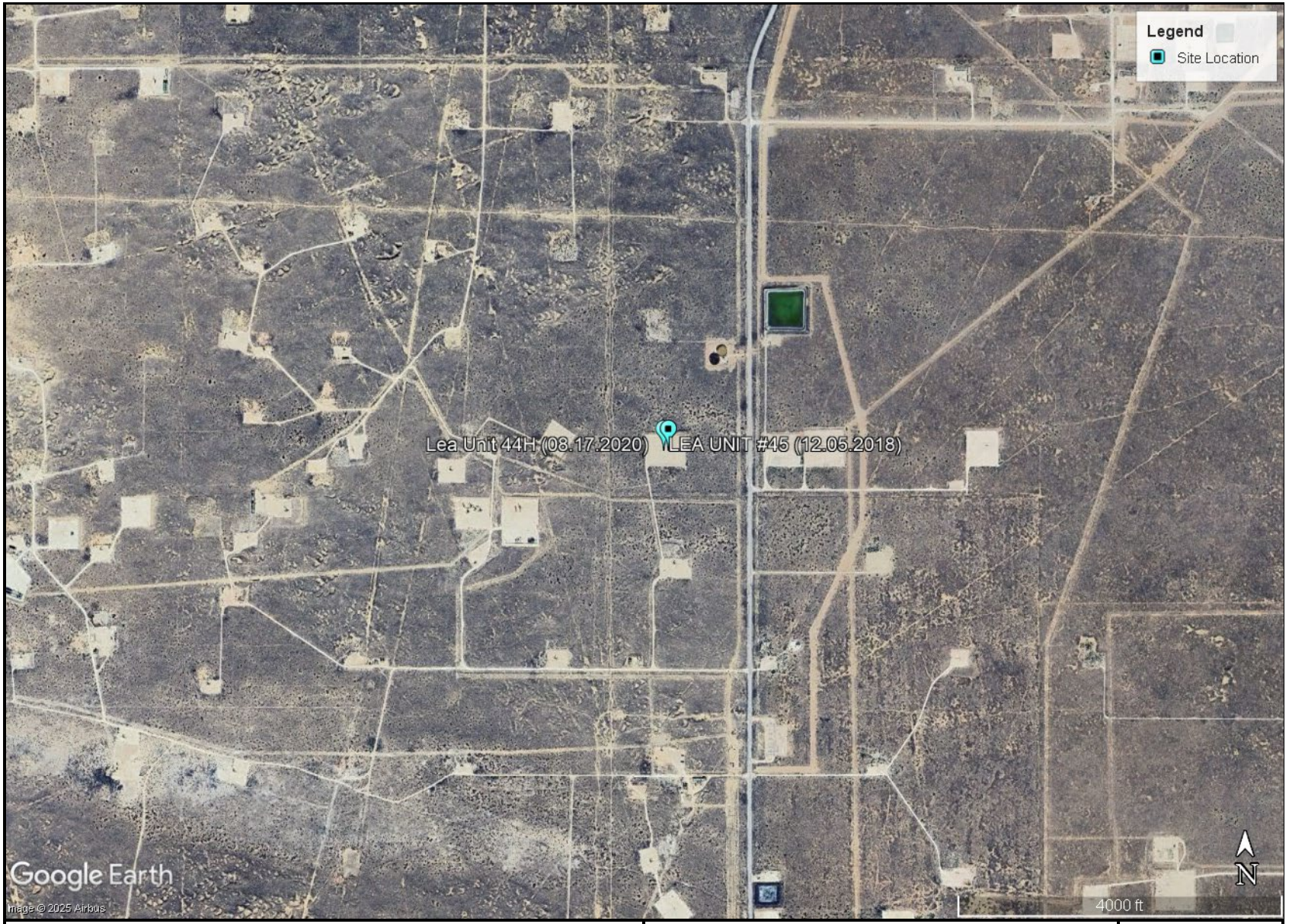
Ashton Thielke
Environmental Manager

Gilbert Priego
Project Manager

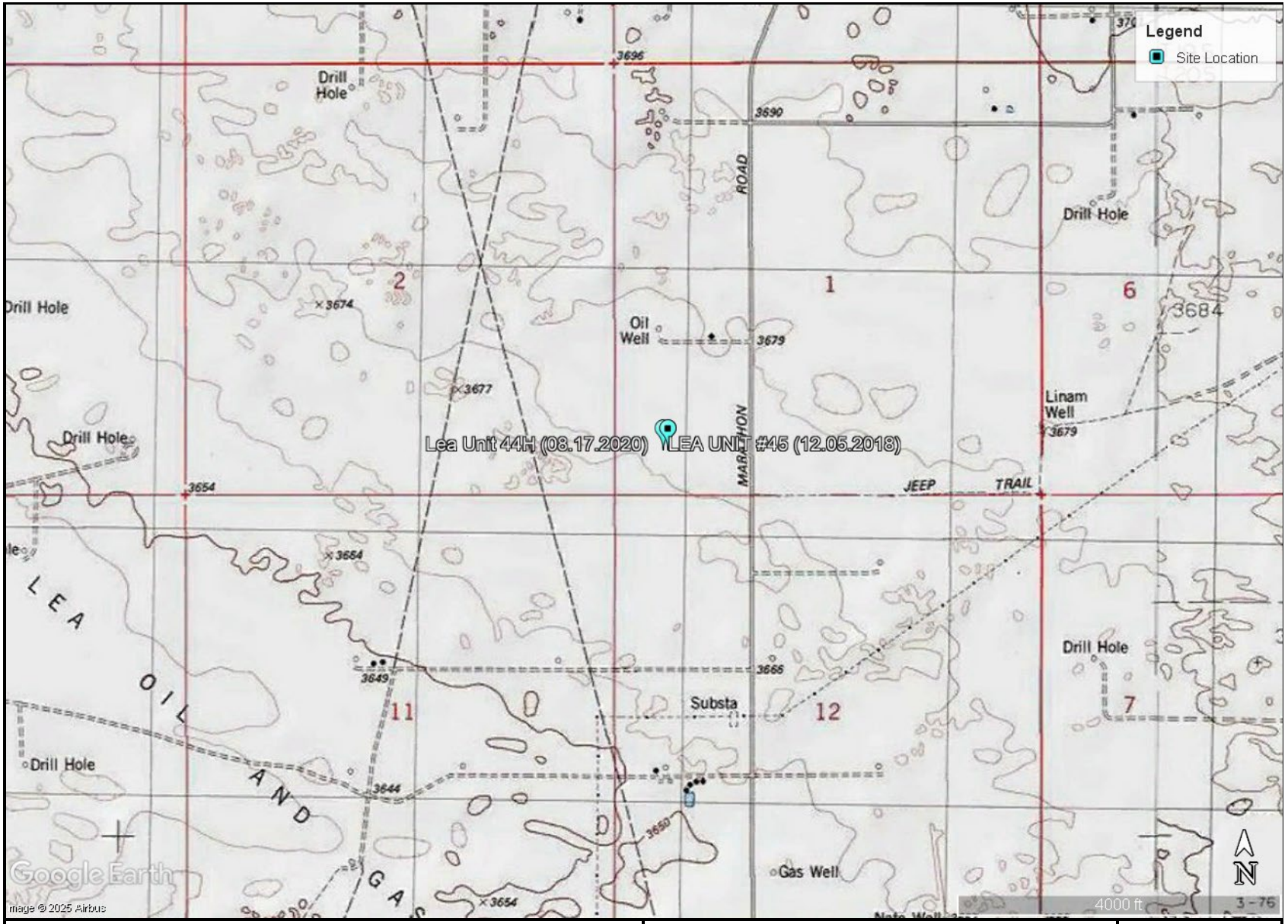
310 West Wall Street, Suite 500
Midland TX, 79701
432.813.1992

FIGURES

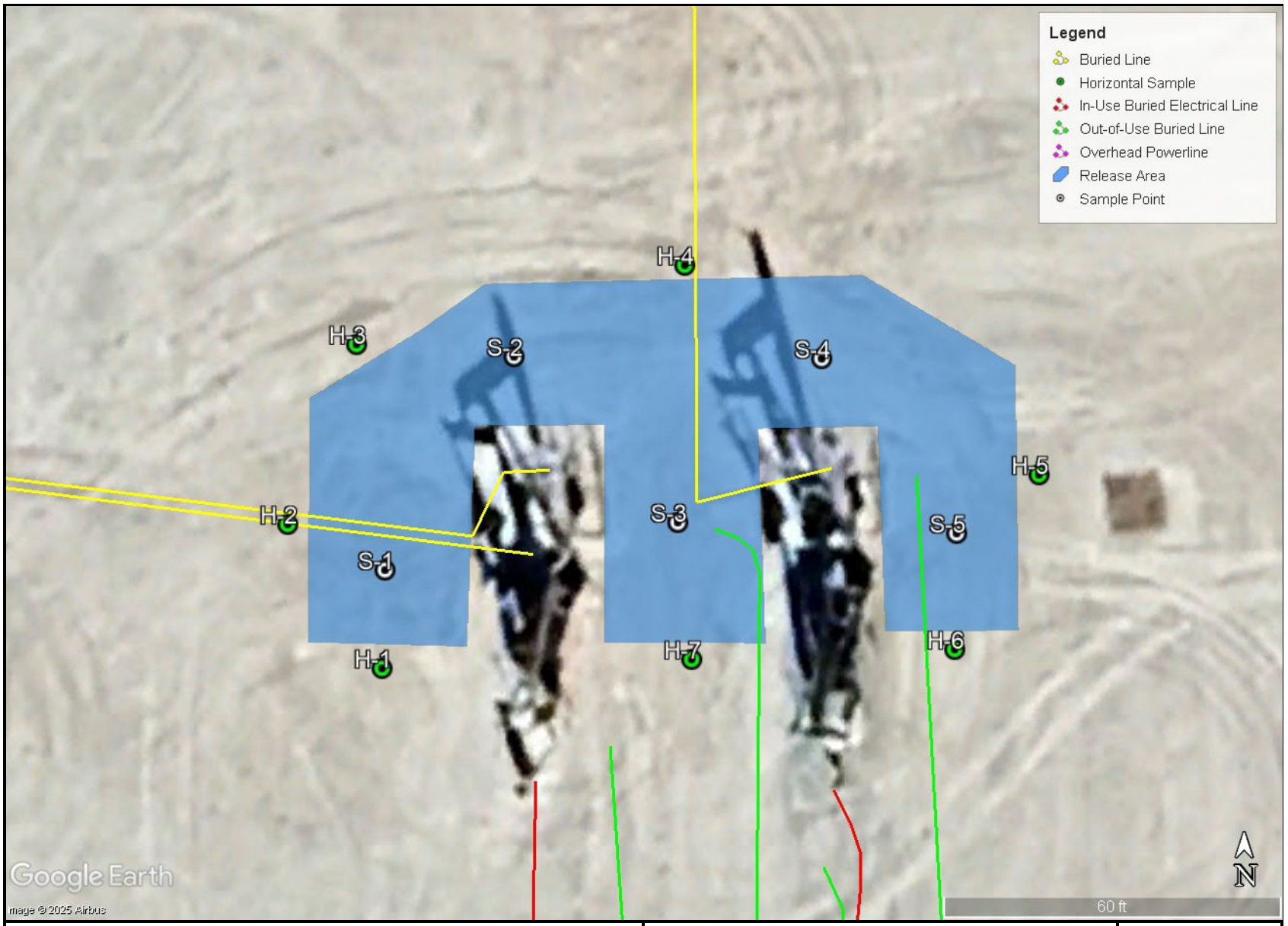
CARMONA RESOURCES



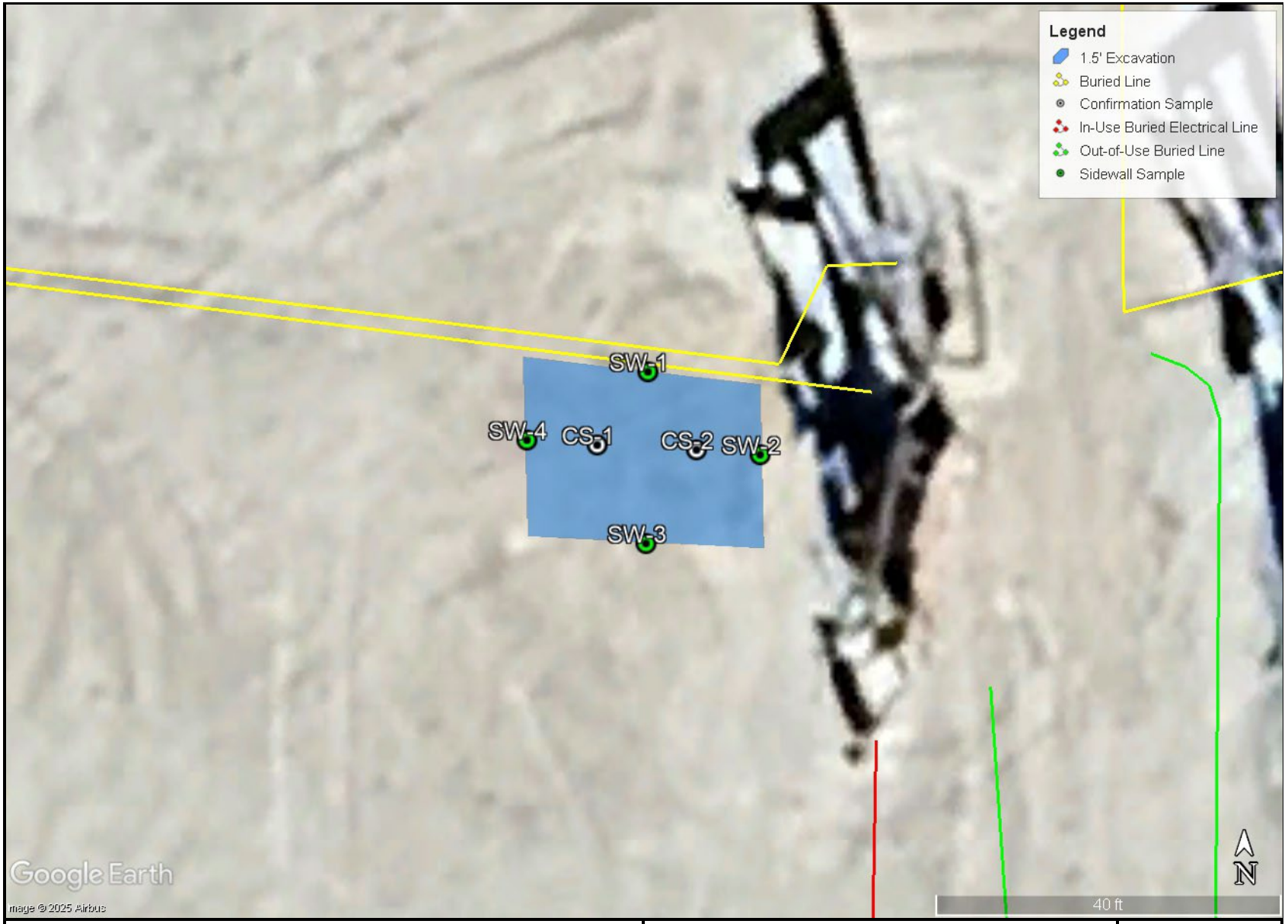
OVERVIEW MAP COTERRA ENERGY OPERATING CO. LEA UNIT 44H & 45H LEA COUNTY, NEW MEXICO 32.596628°, -103.520177°	CARMONA RESOURCES	FIGURE 1



TOPOGRAPHIC MAP COTERRA ENERGY OPERATING CO. LEA UNIT 44H & 45H LEA COUNTY, NEW MEXICO 32.596628°, -103.520177°	CARMONA RESOURCES	FIGURE 2



SAMPLE LOCATION MAP COTERRA ENERGY OPERATING CO. LEA UNIT 44H & 45H LEA COUNTY, NEW MEXICO 32.596628°, -103.520177°	CARMONA RESOURCES	FIGURE 3



EXCAVATION DEPTH MAP COTERRA ENERGY OPERATING CO. LEA UNIT 44H & 45H LEA COUNTY, NEW MEXICO 32.596628°, -103.520177°	CARMONA RESOURCES	FIGURE 4

APPENDIX A

CARMONA RESOURCES

Table 1
Coterra Energy Operating Co.
Lea Unit 44H (08.17.2020) & Lea Unit #45 (12.05.2018)
Lea County, New Mexico

Sample ID	Date	Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
S-1	5/13/2025	0-1.0'	<50.0	**1,160**	<50.0	**1,160**	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	399
	"	1.5'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	359
	"	2.0'	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	432
	"	3.0'	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	995
	"	4.0'	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,320
S-2	5/13/2025	0-1.0'	<50.3	100	<50.3	100	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	1,910
	"	1.5'	<49.7	<49.7	<49.7	<49.7	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	1,290
	"	2.0'	<49.6	<49.6	<49.6	<49.6	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	1,470
	"	3.0'	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,510
	"	4.0'	<50.2	<50.2	<50.2	<50.2	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	1,010
	"	5.0'	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	291
	"	6.0'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	193
	"	7.0'	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	373
	"	8.0'	<50.1	<50.1	<50.1	<50.1	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	296
	"	9.0'	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	158
S-3	5/13/2025	0-0.5'	<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,530
	"	1.5'	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	946
	"	2.0'	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	1,820
	"	3.0'	<50.1	<50.1	<50.1	<50.1	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,680
	"	4.0'	<50.3	<50.3	<50.3	<50.3	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	176
S-4	5/13/2025	0-1.0'	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	648
	"	1.5'	<49.7	<49.7	<49.7	<49.7	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	648
	"	2.0'	<49.6	<49.6	<49.6	<49.6	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	224
	"	3.0'	<50.1	<50.1	<50.1	<50.1	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	92.5
	"	4.0'	<50.3	<50.3	<50.3	<50.3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	89.7
S-5	5/13/2025	0-0.5'	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	441
	"	1.5'	<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	235
	"	2.0'	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	222
	"	3.0'	<49.7	<49.7	<49.7	<49.7	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	204
	"	4.0'	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	137
Regulatory Criteria [A]			1,000 mg/kg			2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg

[A] – Table 1 - 19.15.29 NMAC
mg/kg - milligram per kilogram
TPH - Total Petroleum Hydrocarbons
ft - feet
S - Soil Sample
Removed

Table 1
Coterra Energy Operating Co.
Lea Unit 44H (08.17.2020) & Lea Unit #45 (12.05.2018)
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						
H-1	6/5/2025	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0
H-2	6/5/2025	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
H-3	6/5/2025	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
H-4	6/5/2025	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
H-5	6/5/2025	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
H-6	6/5/2025	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	256
H-7	6/5/2025	0-0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
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
(H) - Horizontal Sample

Table 2
Coterra Energy Operating Co.
Lea Unit 44H (08.17.2020) & Lea Unit #45 (12.05.2018)
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	6/5/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
CS-2	6/5/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
SW-1	6/5/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SW-2	6/5/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
SW-3	6/5/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-4	6/5/2025	1.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
Backfill	6/9/2025	-	<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00399	87.0
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
SW- Sidewall Sample

APPENDIX B

CARMONA RESOURCES

PHOTOGRAPHIC LOG

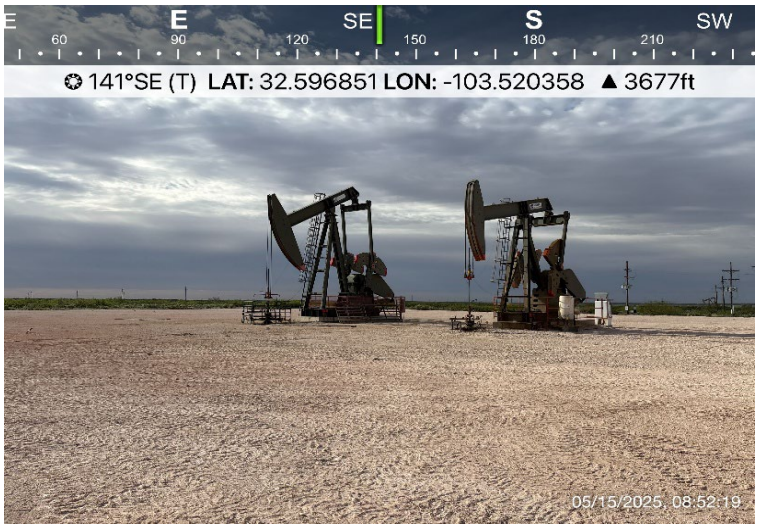
Coterra Energy Operating Co.

Photograph No. 1

Facility: Lea Unit 44H & 45H

County: Lea County, New Mexico

Description:
View Southeast, area of S-1 through S-5.

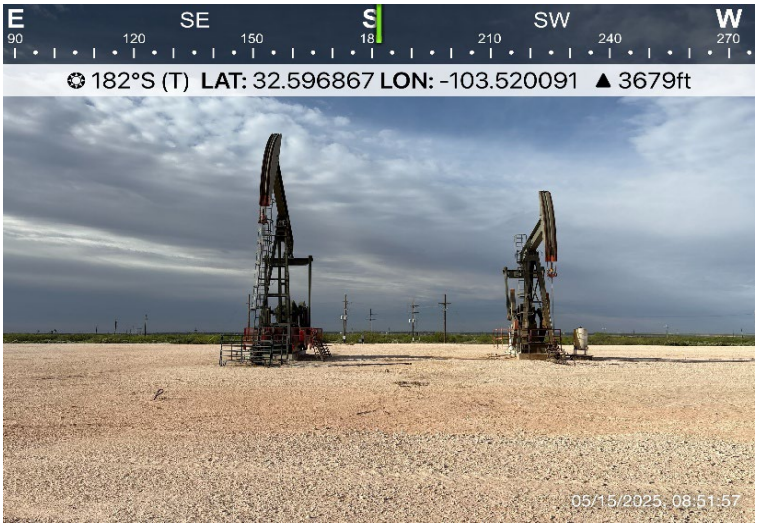


Photograph No. 2

Facility: Lea Unit 44H & 45H

County: Lea County, New Mexico

Description:
View South, area of S-1 through S-5.

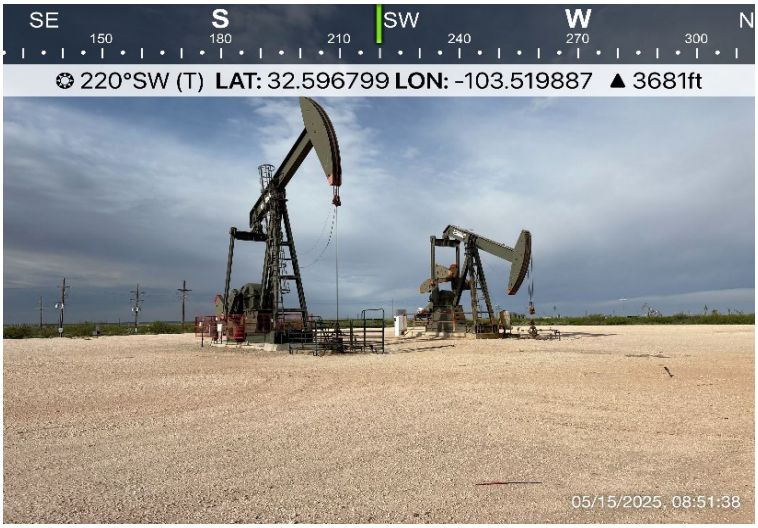


Photograph No. 3

Facility: Lea Unit 44H & 45H

County: Lea County, New Mexico

Description:
View Southwest, area of S-1 through S-5.



CARMONA RESOURCES

PHOTOGRAPHIC LOG

Coterra Energy Operating Co.

Photograph No. 4

Facility: Lea Unit 44H & 45H

County: Lea County, New Mexico

Description:
View West, area of CS-1 and CS-2.

Photograph No. 5

Facility: Lea Unit 44H & 45H

County: Lea County, New Mexico

Description:
View Northeast, area of CS-1 and CS-2.

Photograph No. 6

Facility: Lea Unit 44H & 45H

County: Lea County, New Mexico

Description:
View South, area of CS-1 and CS-2.

CARMONA RESOURCES

PHOTOGRAPHIC LOG

Coterra Energy Operating Co.

Photograph No. 7

Facility: Lea Unit 44H & 45H

County: Lea County, New Mexico

Description:
View North, area of CS-1 and CS-2 backfilled. Soil was damp from recent rains.

Photograph No. 8

Facility: Lea Unit 44H & 45H

County: Lea County, New Mexico

Description:
View Northeast, area of CS-1 and CS-2 backfilled. Soil was damp from recent rains.

Photograph No. 9

Facility: Lea Unit 44H & 45H

County: Lea County, New Mexico

Description:
View Northwest, area of CS-1 and CS-2 backfilled. Soil was damp from recent rains.

CARMONA RESOURCES

APPENDIX C

CARMONA RESOURCES

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	NRM2024760291
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Legacy Reserves	OGRID
Contact Name Clyde Wilhoit	Contact Telephone (432) 425-4137
Contact email cwilhot@legacylp.com	Incident # NRM2024760291
Contact mailing address 303 W Wall St Suit 1800 Midland Tx, 79701	

Location of Release Source

Latitude 32.596628 Longitude -103.520177
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Lea Fed Unit #44H	Site Type Well Pad
Date Release Discovered 8-17-20	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
M	01	T20s	34E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (*Name: Klein Properties LLC*_____)

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 42	Volume Recovered (bbls) 30
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release Stuffing box failed at well head.		

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NRM2024760291
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? More than 25 barrels released.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, Matt Taylor, Laura (Artesia office) 11:00 AM 8-17-20, Phone.	

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.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: Clyde Wilhoit Title: Maintenance Foreman
Signature: Clyde Wilhoit Date: 10-1-2020
email: _____ Telephone: _____

OCD Only

Received by: Ramona Marcus Date: 10/01/2020

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 469781

QUESTIONS

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 469781
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nRM2024760291**
Incident Name	**NRM2024760291 LEA FED UNIT #44H @ 30-025-42885**
Incident Type	**Oil Release**
Incident Status	**Initial C-141 Approved**
Incident Well	**[30-025-42885] LEA UNIT #044H**

Location of Release Source	
Site Name	**LEA FED UNIT #44H**
Date Release Discovered	**08/17/2020**
Surface Owner	**Private**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	457
What is the estimated number of samples that will be gathered	5
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/05/2025
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	(32.596628,-103.520177) Carmona Resources will be onsite to collect final composite confirmation floor and sidewall samples. Sampling will begin on 06.04.2025 and continue into 06.05.2025

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
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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 469781
	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.	6/2/2025

OCD Permitting

NCH1903249514 LEA UNIT #45 @ 30-025-43143

General Incident Information

Site Name: LEA UNIT #45
Well: [30-025-43143] LEA UNIT #045H
Facility:
Operator: [330396] Avant Operating, LLC
Status: Initial C-141 Approved, Pending submission of Site Characterization / Remediation Plan OR Remediation Closure Report from the operator
Type: Oil Release
Severity: Minor
Surface Owner: Private
District: Hobbs
County: Lea (25)

Incident Location: M-01-20S-34E 0 FNL 0 FEL
Lat/Long: 32.59663,-103.520101 NAD83
Directions:

Notes

Source of Referral: Industry Rep
Action / Escalation:

Resulted In Fire: ☐
Resulted In Injury: ☐
Endangered Public Health: ☐
Will or Has Reached Watercourse: ☐
Fresh Water Contamination: ☐
Property Or Environmental Damage: ☐

Contact Details

Contact Name: Brian Cunningham
Contact Title: Production Foreman

Event Dates

Date of Discovery: 12/05/2018
Initial C-141 Report Due: 12/20/2018
Remediation Closure Report Due: 03/05/2019

Incident Dates

Type	Action	Received	Denied	Approved
Sampling Notice	[469791]	06/02/2025		06/02/2025
Sampling Notice	[468985]	05/29/2025		05/29/2025
Sampling Notice	[459414]	05/06/2025		05/06/2025
Initial C-141 Report		12/14/2018		12/14/2018

Quick Links
- General Incident Inform
- Materials
- Events
- Orders
- Action Status

Associated Images
- Incident Files (3)
- Well Files (17)

New Searches
- New Facility Search
- New Incident Search
- New Operator Search
- New Pit Search
- New Spill Search
- New Tank Search
- New Well Search

Incident Materials

Cause	Source	Material	Volume Unk.	Volume Released	Volume Recovered	Volume Lost	Units
Equipment Failure	Well	Crude Oil	☐	15	0	15	BBL

The concentration of dissolved chloride in the produced water >10,000 mg/l: ☐ Yes ☑ No

Incident Events

Date	Detail
06/02/2025	The (06/02/2025, C-141N) application [469791] was assigned to this incident.
05/29/2025	The (05/29/2025, C-141N) application [468985] was assigned to this incident.
05/06/2025	The (05/06/2025, C-141N) application [459414] was assigned to this incident.
12/05/2018	The release was caused due to a stuffing box blowout.

Incident Severity

Major release as defined by 19.15.29.7(A) NMAC?

☐ Yes ☑ No

Incident Corrective Actions

No initial response data was found for this incident.

No site characterization data was found for this incident.

No remediation plan data was found for this incident.

No active remediation deferral request was found for this incident.

No remediation closure report data was found for this incident.

No reclamation report data was found for this incident.

No re-vegetation report data was found for this incident.

Orders

1RP-5305-0

Applicant: [240974] LEGACY RESERVES OPERATING, LP
Contact: Brian Cunningham **Approved By:**
Reviewer: Christina Hernandez **Issuing Office:** Hobbs

Processing Dates

1220 South St. Francis Drive | Santa Fe, NM 87505 | P: (505) 476-3200 | F: (505) 476-3220

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 469791

QUESTIONS

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 469791
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nCH1903249514**
Incident Name	**NCH1903249514 LEA UNIT #45 @ 30-025-43143**
Incident Type	**Oil Release**
Incident Status	**Initial C-141 Approved**
Incident Well	**[30-025-43143] LEA UNIT #045H**

Location of Release Source	
Site Name	**LEA UNIT #45**
Date Release Discovered	**12/05/2018**
Surface Owner	**Private**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	457
What is the estimated number of samples that will be gathered	5
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/04/2025
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	(32.596628,-103.520177) Carmona Resources will be onsite to collect final composite confirmation floor and sidewall samples. Sampling will begin on 06.04.2025 and continue into 06.05.2025

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

CONDITIONS

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 469791
	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.	6/2/2025

APPENDIX D

CARMONA RESOURCES

Nearest Water Well

Coterra Energy Operating Co.

Low Karst

Coterra Energy Operating Co.

Legend

- Lea Unit #044H & #045H
- Low

Lea Unit #44H (08.17.2020) Lea Unit #45H (12.05.2018)

Google Earth

N

3000 ft

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
L 04157		L	LE		SW	SW	06	20S	35E	640483.0	3607561.0 *		1599	70	64	6
CP 00654 POD1		CP	LE		SE	SE	12	20S	34E	640103.0	3605947.0 *		1990	60		
CP 01672 POD1		CP	LE	NW	SW	NW	36	19S	34E	638735.9	3610009.6		2494	100		
CP 00655 POD1		CP	LE		SW	NW	14	20S	34E	637294.0	3605108.0 *		2888	210		
CP 00683 POD1		CP	LE	SW	SW	SE	25	19S	34E	639530.0	3610685.0 *		3230	120	28	92
CP 00656 POD1		CP	LE	SE	SE	SE	04	20S	34E	635342.0	3607391.0 *		3544	225		
CP 00800 POD1		CP	LE	NE	NE	NE	22	20S	34E	637007.0	3603994.0 *		3994	220		

Average Depth to Water: **46 feet**

Minimum Depth: **28 feet**

Maximum Depth: **64 feet**

Record Count: 7

UTM Filters (in meters):
Easting: 638884.00
Northing: 3607520.00
Radius: 4000

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

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-2083

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	35	32.0	N
	LONGITUDE	103	31	9.5	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 12 Township 20s Range 34e. West of 27-A (Marathon Rd.)

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)
9-3-25	9-3-25	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	105'	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'	5'	5'	Sandy Caliche	Y ✓ N	
5'	10'	5'	Sand	Y ✓ N	
10'	20'	10'	Caliche	Y ✓ N	
20'	45'	25'	Sand	Y ✓ N	
45'	50'	5'	Caliche	Y ✓ N	
50'	60'	10'	Sandy Red Clay	Y ✓ N	
60'	105'	45'	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	

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 9-8-25. 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. Lea Unit Fed #21

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

9/8/25 — 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-2083 Pod 1

Well owner: Coterra Energy Phone No.: 432-208-3035

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: 9-8-25 Date well plugging concluded: 9-8-25

5) GPS Well Location: Latitude: 32 deg, 35 min, 32.0 sec
Longitude: 103 deg, 31 min, 9.5 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: 7/16/25

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):

Version: September 8, 2009
Page 1 of 2

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. 140 gallons	140 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

9/8/25

Date

Version: September 8, 2009
Page 2 of 2

Lea Unit 44H & 45H

6/10/2025

World_Hillshade

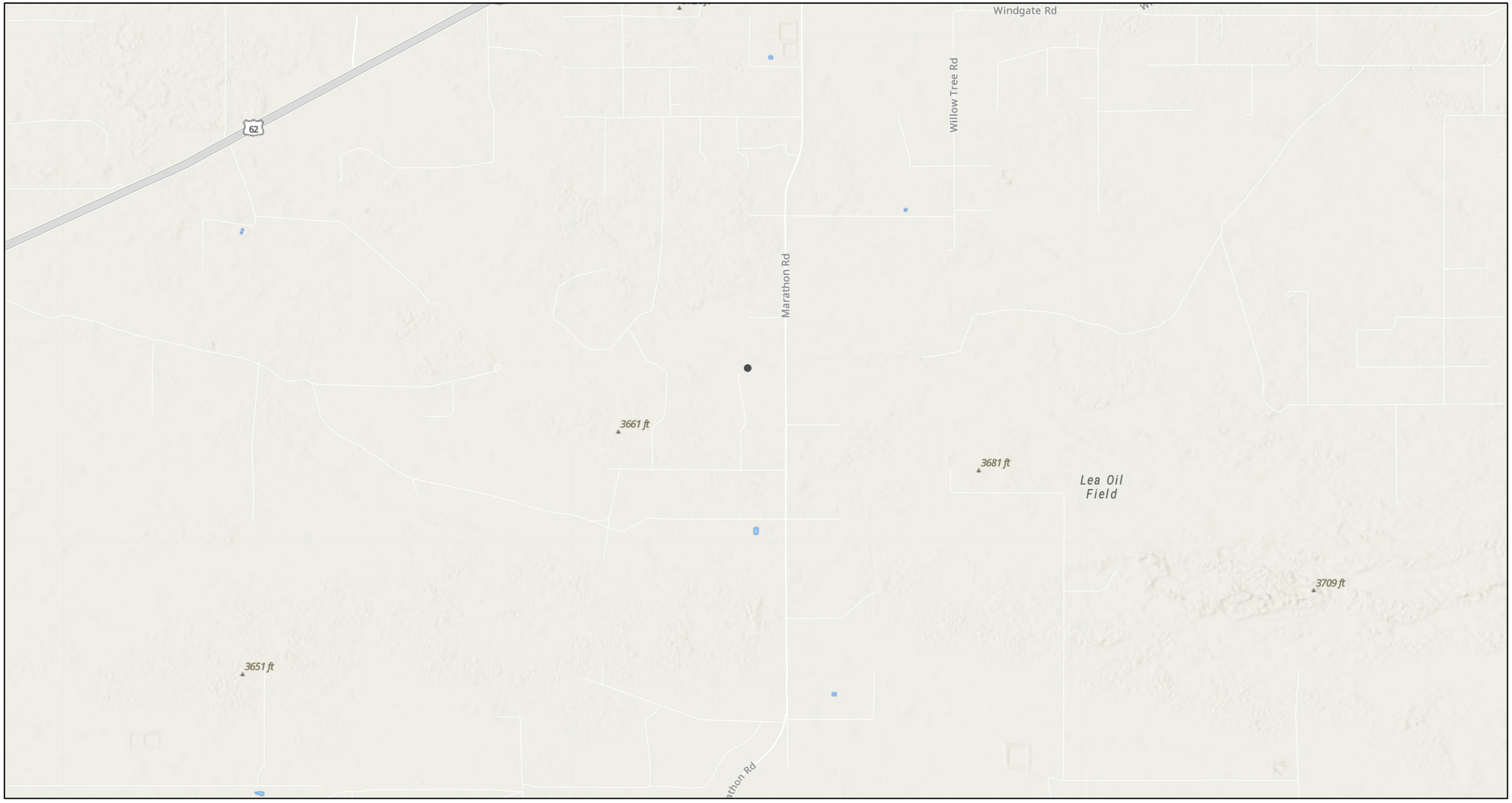
1:72,224

0 0.5 1 2 mi

0 0.75 1.5 3 km

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

Lea Unit 44H & 45H



6/10/2025, 2:12:24 PM

OSW Water Bodys

1:36,112

0 0.38 0.75 1.5 mi

0 0.5 1 2 km

APPENDIX E

CARMONA RESOURCES

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ashton Thielke
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 5/16/2025 1:31:00 PM

JOB DESCRIPTION

Lea Federal Unit 21H
Lea County, New Mexico

JOB NUMBER

880-58111-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

Job Notes

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

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

Authorization

Generated
5/16/2025 1:31:00 PM

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

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Laboratory Job ID: 880-58111-1
SDG: Lea County, New Mexico

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Lea Federal Unit 21H

Job ID: 880-58111-1

Job ID: 880-58111-1 Eurofins Midland

Job Narrative
880-58111-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt
The samples were received on 5/13/2025 5:03 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C.

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-110112 and analytical batch 880-110092 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-1 (1.5') (880-58111-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-110113 and analytical batch 880-110227 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-110109/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-110109/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-110110/2-A) and (LCSD 880-110110/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-110123 and analytical batch 880-110163 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: S-2 (6.0') (880-58111-12), S-2 (7.0') (880-58111-13), S-2 (8.0') (880-58111-14), S-2 (9.0') (880-58111-15), S-3 (0-1.0') (880-58111-16), S-3 (1.5') (880-58111-17), S-3 (2.0') (880-58111-18), S-3 (3.0') (880-58111-19), S-3 (4.0') (880-58111-20), S-4 (0-1.0') (880-58111-21), (880-58111-A-12-D MS) and (880-58111-A-12-E MSD).

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

Eurofins Midland

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (0-1.0')

Lab Sample ID: 880-58111-1
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/14/25 22:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/14/25 22:49	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		05/14/25 11:05	05/14/25 22:49	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		05/14/25 11:05	05/14/25 22:49	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		05/14/25 11:05	05/14/25 22:49	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		05/14/25 11:05	05/14/25 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*05/14/25 11:05*	*05/14/25 22:49*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/14/25 11:05*	*05/14/25 22:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/14/25 22:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**1160**		50.0		mg/Kg			05/15/25 04:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/14/25 10:50	05/15/25 04:10	1
Diesel Range Organics (Over C10-C28)	**1160**		50.0		mg/Kg		05/14/25 10:50	05/15/25 04:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/14/25 10:50	05/15/25 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*05/14/25 10:50*	*05/15/25 04:10*	*1*
o-Terphenyl (Surr)	*110*		*70 - 130*	*05/14/25 10:50*	*05/15/25 04:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**399**		9.96		mg/Kg			05/14/25 20:35	1

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-58111-2
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/14/25 23:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/14/25 23:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/14/25 23:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/14/25 11:05	05/14/25 23:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/14/25 23:09	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/14/25 11:05	05/14/25 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*05/14/25 11:05*	*05/14/25 23:09*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*05/14/25 11:05*	*05/14/25 23:09*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-58111-2
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/14/25 23:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/15/25 04:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/14/25 10:50	05/15/25 04:26	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/14/25 10:50	05/15/25 04:26	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/14/25 10:50	05/15/25 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*05/14/25 10:50*	*05/15/25 04:26*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*05/14/25 10:50*	*05/15/25 04:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**359**		10.0		mg/Kg			05/14/25 20:41	1

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-58111-3
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/14/25 23:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/14/25 23:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/14/25 23:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/14/25 11:05	05/14/25 23:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/14/25 23:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/14/25 11:05	05/14/25 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*05/14/25 11:05*	*05/14/25 23:30*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*05/14/25 11:05*	*05/14/25 23:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/14/25 23:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/15/25 04:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/14/25 10:50	05/15/25 04:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/14/25 10:50	05/15/25 04:44	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-58111-3
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/14/25 10:50	05/15/25 04:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*05/14/25 10:50*	*05/15/25 04:44*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*05/14/25 10:50*	*05/15/25 04:44*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**432**		10.0		mg/Kg			05/14/25 21:02	1

Client Sample ID: S-1 (3.0')

Lab Sample ID: 880-58111-4
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/14/25 23:50	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/14/25 23:50	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/14/25 23:50	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/14/25 11:05	05/14/25 23:50	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/14/25 23:50	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/14/25 11:05	05/14/25 23:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*05/14/25 11:05*	*05/14/25 23:50*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/14/25 11:05*	*05/14/25 23:50*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/14/25 23:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/15/25 05:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/14/25 10:50	05/15/25 05:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/14/25 10:50	05/15/25 05:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/14/25 10:50	05/15/25 05:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*05/14/25 10:50*	*05/15/25 05:00*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*05/14/25 10:50*	*05/15/25 05:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**995**		10.1		mg/Kg			05/14/25 21:09	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (4.0')

Lab Sample ID: 880-58111-5
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 00:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 00:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 00:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/14/25 11:05	05/15/25 00:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 00:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/14/25 11:05	05/15/25 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*05/14/25 11:05*	*05/15/25 00:11*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/14/25 11:05*	*05/15/25 00:11*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/15/25 00:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/15/25 05:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/14/25 10:50	05/15/25 05:17	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/14/25 10:50	05/15/25 05:17	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/14/25 10:50	05/15/25 05:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*96*		*70 - 130*	*05/14/25 10:50*	*05/15/25 05:17*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*05/14/25 10:50*	*05/15/25 05:17*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1320**		10.1		mg/Kg			05/14/25 21:29	1

Client Sample ID: S-2 (0-1.0')

Lab Sample ID: 880-58111-6
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/15/25 00:31	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/15/25 00:31	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/15/25 00:31	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/14/25 11:05	05/15/25 00:31	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/15/25 00:31	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/14/25 11:05	05/15/25 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*05/14/25 11:05*	*05/15/25 00:31*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/14/25 11:05*	*05/15/25 00:31*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (0-1.0')

Lab Sample ID: 880-58111-6
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/15/25 00:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**100**		50.3		mg/Kg			05/15/25 05:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		05/14/25 10:50	05/15/25 05:32	1
Diesel Range Organics (Over C10-C28)	**100**		50.3		mg/Kg		05/14/25 10:50	05/15/25 05:32	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		05/14/25 10:50	05/15/25 05:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*05/14/25 10:50*	*05/15/25 05:32*	*1*
o-Terphenyl (Surr)	*95*		*70 - 130*	*05/14/25 10:50*	*05/15/25 05:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1910**		50.5		mg/Kg			05/14/25 21:36	5

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-58111-7
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/14/25 11:05	05/15/25 00:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/14/25 11:05	05/15/25 00:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/14/25 11:05	05/15/25 00:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/14/25 11:05	05/15/25 00:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/14/25 11:05	05/15/25 00:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/14/25 11:05	05/15/25 00:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*05/14/25 11:05*	*05/15/25 00:52*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/14/25 11:05*	*05/15/25 00:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/15/25 00:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/15/25 05:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/14/25 10:50	05/15/25 05:49	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/14/25 10:50	05/15/25 05:49	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-58111-7
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/14/25 10:50	05/15/25 05:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*94*		*70 - 130*	*05/14/25 10:50*	*05/15/25 05:49*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*05/14/25 10:50*	*05/15/25 05:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1290**		9.94		mg/Kg			05/14/25 21:43	1

Client Sample ID: S-2 (2.0')

Lab Sample ID: 880-58111-8
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/15/25 01:12	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/15/25 01:12	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/15/25 01:12	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/14/25 11:05	05/15/25 01:12	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/15/25 01:12	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/14/25 11:05	05/15/25 01:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*05/14/25 11:05*	*05/15/25 01:12*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/14/25 11:05*	*05/15/25 01:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/15/25 01:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			05/15/25 06:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		05/14/25 10:50	05/15/25 06:05	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		05/14/25 10:50	05/15/25 06:05	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		05/14/25 10:50	05/15/25 06:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*05/14/25 10:50*	*05/15/25 06:05*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*05/14/25 10:50*	*05/15/25 06:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1470**		49.8		mg/Kg			05/14/25 21:49	5

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (3.0')

Lab Sample ID: 880-58111-9
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 01:32	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 01:32	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 01:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/14/25 11:05	05/15/25 01:32	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 01:32	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/14/25 11:05	05/15/25 01:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*05/14/25 11:05*	*05/15/25 01:32*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/14/25 11:05*	*05/15/25 01:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/15/25 01:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			05/15/25 06:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		05/14/25 10:50	05/15/25 06:37	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		05/14/25 10:50	05/15/25 06:37	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		05/14/25 10:50	05/15/25 06:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*95*		*70 - 130*	*05/14/25 10:50*	*05/15/25 06:37*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*05/14/25 10:50*	*05/15/25 06:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1510**		49.9		mg/Kg			05/14/25 21:56	5

Client Sample ID: S-2 (4.0')

Lab Sample ID: 880-58111-10
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/15/25 01:53	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/15/25 01:53	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/15/25 01:53	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/14/25 11:05	05/15/25 01:53	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/15/25 01:53	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/14/25 11:05	05/15/25 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*05/14/25 11:05*	*05/15/25 01:53*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/14/25 11:05*	*05/15/25 01:53*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (4.0')

Lab Sample ID: 880-58111-10
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/15/25 01:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2		mg/Kg			05/15/25 06:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		05/14/25 10:50	05/15/25 06:54	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		05/14/25 10:50	05/15/25 06:54	1
Oil Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		05/14/25 10:50	05/15/25 06:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*91*		*70 - 130*	*05/14/25 10:50*	*05/15/25 06:54*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*05/14/25 10:50*	*05/15/25 06:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1010**		9.92		mg/Kg			05/14/25 22:03	1

Client Sample ID: S-2 (5.0')

Lab Sample ID: 880-58111-11
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 03:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 03:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 03:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/14/25 11:05	05/15/25 03:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 03:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/14/25 11:05	05/15/25 03:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*05/14/25 11:05*	*05/15/25 03:27*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*05/14/25 11:05*	*05/15/25 03:27*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/15/25 03:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/15/25 07:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/14/25 10:50	05/15/25 07:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/14/25 10:50	05/15/25 07:10	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (5.0')

Lab Sample ID: 880-58111-11
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/14/25 10:50	05/15/25 07:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*93*		*70 - 130*	*05/14/25 10:50*	*05/15/25 07:10*	*1*
o-Terphenyl (Surr)	*93*		*70 - 130*	*05/14/25 10:50*	*05/15/25 07:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**291**		9.96		mg/Kg			05/14/25 22:10	1

Client Sample ID: S-2 (6.0')

Lab Sample ID: 880-58111-12
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/15/25 03:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/15/25 03:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/15/25 03:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/14/25 11:05	05/15/25 03:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/15/25 03:48	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/14/25 11:05	05/15/25 03:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*05/14/25 11:05*	*05/15/25 03:48*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/14/25 11:05*	*05/15/25 03:48*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/15/25 03:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/15/25 07:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/14/25 10:50	05/15/25 07:27	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/14/25 10:50	05/15/25 07:27	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/14/25 10:50	05/15/25 07:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*89*		*70 - 130*	*05/14/25 10:50*	*05/15/25 07:27*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*05/14/25 10:50*	*05/15/25 07:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**193**	**F1**	10.0		mg/Kg			05/15/25 09:54	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (7.0')

Lab Sample ID: 880-58111-13
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/15/25 04:08	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/15/25 04:08	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/15/25 04:08	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/14/25 11:05	05/15/25 04:08	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/15/25 04:08	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/14/25 11:05	05/15/25 04:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*	*05/14/25 11:05*	*05/15/25 04:08*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/14/25 11:05*	*05/15/25 04:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/15/25 04:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/15/25 07:42	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/14/25 10:50	05/15/25 07:42	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/14/25 10:50	05/15/25 07:42	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/14/25 10:50	05/15/25 07:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*05/14/25 10:50*	*05/15/25 07:42*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*05/14/25 10:50*	*05/15/25 07:42*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**373**		9.92		mg/Kg			05/15/25 10:09	1

Client Sample ID: S-2 (8.0')

Lab Sample ID: 880-58111-14
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/15/25 04:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/15/25 04:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/15/25 04:28	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/14/25 11:05	05/15/25 04:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/15/25 04:28	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/14/25 11:05	05/15/25 04:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*05/14/25 11:05*	*05/15/25 04:28*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/14/25 11:05*	*05/15/25 04:28*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (8.0')

Lab Sample ID: 880-58111-14
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/15/25 04:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/15/25 08:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/14/25 10:50	05/15/25 08:00	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/14/25 10:50	05/15/25 08:00	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/14/25 10:50	05/15/25 08:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*05/14/25 10:50*	*05/15/25 08:00*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*05/14/25 10:50*	*05/15/25 08:00*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**296**		10.0		mg/Kg			05/15/25 10:15	1

Client Sample ID: S-2 (9.0')

Lab Sample ID: 880-58111-15
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/15/25 04:49	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/15/25 04:49	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/15/25 04:49	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/14/25 11:05	05/15/25 04:49	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/15/25 04:49	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/14/25 11:05	05/15/25 04:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*05/14/25 11:05*	*05/15/25 04:49*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/14/25 11:05*	*05/15/25 04:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/15/25 04:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/15/25 08:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/14/25 10:50	05/15/25 08:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/14/25 10:50	05/15/25 08:15	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (9.0')

Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58111-15
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/14/25 10:50	05/15/25 08:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*05/14/25 10:50*	*05/15/25 08:15*	*1*
o-Terphenyl (Surr)	*90*		*70 - 130*	*05/14/25 10:50*	*05/15/25 08:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**158**		9.94		mg/Kg			05/15/25 10:20	1

Client Sample ID: S-3 (0-1.0')

Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58111-16
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 05:09	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 05:09	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 05:09	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/14/25 11:05	05/15/25 05:09	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 05:09	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/14/25 11:05	05/15/25 05:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*05/14/25 11:05*	*05/15/25 05:09*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/14/25 11:05*	*05/15/25 05:09*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/15/25 05:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/15/25 08:33	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/14/25 10:50	05/15/25 08:33	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/14/25 10:50	05/15/25 08:33	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/14/25 10:50	05/15/25 08:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*90*		*70 - 130*	*05/14/25 10:50*	*05/15/25 08:33*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*05/14/25 10:50*	*05/15/25 08:33*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3530**		49.6		mg/Kg			05/15/25 10:25	5

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-58111-17
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 05:30	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 05:30	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 05:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/14/25 11:05	05/15/25 05:30	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 05:30	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/14/25 11:05	05/15/25 05:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*05/14/25 11:05*	*05/15/25 05:30*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/14/25 11:05*	*05/15/25 05:30*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/15/25 05:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			05/15/25 08:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		05/14/25 10:50	05/15/25 08:49	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		05/14/25 10:50	05/15/25 08:49	1
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		05/14/25 10:50	05/15/25 08:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*92*		*70 - 130*	*05/14/25 10:50*	*05/15/25 08:49*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*05/14/25 10:50*	*05/15/25 08:49*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**946**		10.1		mg/Kg			05/15/25 10:41	1

Client Sample ID: S-3 (2.0')

Lab Sample ID: 880-58111-18
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/15/25 05:50	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/15/25 05:50	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/15/25 05:50	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/14/25 11:05	05/15/25 05:50	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/15/25 05:50	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/14/25 11:05	05/15/25 05:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*05/14/25 11:05*	*05/15/25 05:50*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/14/25 11:05*	*05/15/25 05:50*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (2.0')

Lab Sample ID: 880-58111-18
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/15/25 05:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/15/25 09:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/14/25 10:50	05/15/25 09:05	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/14/25 10:50	05/15/25 09:05	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/14/25 10:50	05/15/25 09:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*99*		*70 - 130*	*05/14/25 10:50*	*05/15/25 09:05*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*05/14/25 10:50*	*05/15/25 09:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1820**		50.4		mg/Kg			05/15/25 10:46	5

Client Sample ID: S-3 (3.0')

Lab Sample ID: 880-58111-19
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 06:10	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 06:10	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 06:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/14/25 11:05	05/15/25 06:10	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:05	05/15/25 06:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/14/25 11:05	05/15/25 06:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*05/14/25 11:05*	*05/15/25 06:10*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*05/14/25 11:05*	*05/15/25 06:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/15/25 06:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/14/25 19:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/14/25 10:55	05/14/25 19:02	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/14/25 10:55	05/14/25 19:02	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (3.0')

Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58111-19
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/14/25 10:55	05/14/25 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*115*		*70 - 130*	*05/14/25 10:55*	*05/14/25 19:02*	*1*
o-Terphenyl (Surr)	*104*		*70 - 130*	*05/14/25 10:55*	*05/14/25 19:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1680**		49.7		mg/Kg			05/15/25 10:51	5

Client Sample ID: S-3 (4.0')

Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58111-20
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/15/25 06:31	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/15/25 06:31	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/15/25 06:31	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/14/25 11:05	05/15/25 06:31	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:05	05/15/25 06:31	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/14/25 11:05	05/15/25 06:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*05/14/25 11:05*	*05/15/25 06:31*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*05/14/25 11:05*	*05/15/25 06:31*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/15/25 06:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			05/14/25 19:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		05/14/25 10:55	05/14/25 19:50	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		05/14/25 10:55	05/14/25 19:50	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		05/14/25 10:55	05/14/25 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*05/14/25 10:55*	*05/14/25 19:50*	*1*
o-Terphenyl (Surr)	*101*		*70 - 130*	*05/14/25 10:55*	*05/14/25 19:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**176**		9.90		mg/Kg			05/15/25 10:56	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (0-1.0')

Lab Sample ID: 880-58111-21
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U F1	0.00200		mg/Kg		05/14/25 11:07	05/15/25 15:35	1
Toluene	<0.00200	U F1	0.00200		mg/Kg		05/14/25 11:07	05/15/25 15:35	1
Ethylbenzene	<0.00200	U F1	0.00200		mg/Kg		05/14/25 11:07	05/15/25 15:35	1
m-Xylene & p-Xylene	<0.00399	U F1	0.00399		mg/Kg		05/14/25 11:07	05/15/25 15:35	1
o-Xylene	<0.00200	U F1	0.00200		mg/Kg		05/14/25 11:07	05/15/25 15:35	1
Xylenes, Total	<0.00399	U F1	0.00399		mg/Kg		05/14/25 11:07	05/15/25 15:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/14/25 11:07*	*05/15/25 15:35*	*1*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*	*05/14/25 11:07*	*05/15/25 15:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/15/25 15:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/14/25 20:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/14/25 10:55	05/14/25 20:06	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/14/25 10:55	05/14/25 20:06	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/14/25 10:55	05/14/25 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*112*		*70 - 130*	*05/14/25 10:55*	*05/14/25 20:06*	*1*
o-Terphenyl (Surr)	*99*		*70 - 130*	*05/14/25 10:55*	*05/14/25 20:06*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**648**		9.90		mg/Kg			05/15/25 11:01	1

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-58111-22
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:07	05/15/25 15:56	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:07	05/15/25 15:56	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:07	05/15/25 15:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/14/25 11:07	05/15/25 15:56	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:07	05/15/25 15:56	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/14/25 11:07	05/15/25 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*05/14/25 11:07*	*05/15/25 15:56*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*05/14/25 11:07*	*05/15/25 15:56*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (1.5')

Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58111-22
Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/15/25 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/14/25 20:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/14/25 10:55	05/14/25 20:22	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/14/25 10:55	05/14/25 20:22	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/14/25 10:55	05/14/25 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*114*		*70 - 130*	*05/14/25 10:55*	*05/14/25 20:22*	*1*
o-Terphenyl (Surr)	*103*		*70 - 130*	*05/14/25 10:55*	*05/14/25 20:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**648**		9.92		mg/Kg			05/15/25 11:06	1

Client Sample ID: S-4 (2.0')

Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58111-23
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:07	05/15/25 16:16	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:07	05/15/25 16:16	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:07	05/15/25 16:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/14/25 11:07	05/15/25 16:16	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:07	05/15/25 16:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/14/25 11:07	05/15/25 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*05/14/25 11:07*	*05/15/25 16:16*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*05/14/25 11:07*	*05/15/25 16:16*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/15/25 16:16	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.6	U	49.6		mg/Kg			05/14/25 20:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.6	U	49.6		mg/Kg		05/14/25 10:55	05/14/25 20:38	1
Diesel Range Organics (Over C10-C28)	<49.6	U	49.6		mg/Kg		05/14/25 10:55	05/14/25 20:38	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (2.0')

Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58111-23
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.6	U	49.6		mg/Kg		05/14/25 10:55	05/14/25 20:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*110*		*70 - 130*	*05/14/25 10:55*	*05/14/25 20:38*	*1*
o-Terphenyl (Surr)	*98*		*70 - 130*	*05/14/25 10:55*	*05/14/25 20:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**224**		10.0		mg/Kg			05/15/25 11:22	1

Client Sample ID: S-4 (3.0')

Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58111-24
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:07	05/15/25 16:36	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:07	05/15/25 16:36	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:07	05/15/25 16:36	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/14/25 11:07	05/15/25 16:36	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:07	05/15/25 16:36	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/14/25 11:07	05/15/25 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*05/14/25 11:07*	*05/15/25 16:36*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*05/14/25 11:07*	*05/15/25 16:36*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/15/25 16:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.1	U	50.1		mg/Kg			05/14/25 20:54	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	50.1		mg/Kg		05/14/25 10:55	05/14/25 20:54	1
Diesel Range Organics (Over C10-C28)	<50.1	U	50.1		mg/Kg		05/14/25 10:55	05/14/25 20:54	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.1		mg/Kg		05/14/25 10:55	05/14/25 20:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*108*		*70 - 130*	*05/14/25 10:55*	*05/14/25 20:54*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*05/14/25 10:55*	*05/14/25 20:54*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**92.5**		10.1		mg/Kg			05/15/25 11:27	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (4.0')

Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58111-25
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:07	05/15/25 16:57	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:07	05/15/25 16:57	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:07	05/15/25 16:57	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/14/25 11:07	05/15/25 16:57	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:07	05/15/25 16:57	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/14/25 11:07	05/15/25 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*05/14/25 11:07*	*05/15/25 16:57*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*05/14/25 11:07*	*05/15/25 16:57*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/15/25 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			05/14/25 21:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.3	U	50.3		mg/Kg		05/14/25 10:55	05/14/25 21:10	1
Diesel Range Organics (Over C10-C28)	<50.3	U	50.3		mg/Kg		05/14/25 10:55	05/14/25 21:10	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.3		mg/Kg		05/14/25 10:55	05/14/25 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*05/14/25 10:55*	*05/14/25 21:10*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*05/14/25 10:55*	*05/14/25 21:10*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**89.7**		9.96		mg/Kg			05/15/25 11:43	1

Client Sample ID: S-5 (0-1.0')

Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58111-26
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:07	05/15/25 17:17	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:07	05/15/25 17:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:07	05/15/25 17:17	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/14/25 11:07	05/15/25 17:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:07	05/15/25 17:17	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/14/25 11:07	05/15/25 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*	*05/14/25 11:07*	*05/15/25 17:17*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*05/14/25 11:07*	*05/15/25 17:17*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-5 (0-1.0')

Lab Sample ID: 880-58111-26
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/15/25 17:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/14/25 21:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/14/25 10:55	05/14/25 21:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/14/25 10:55	05/14/25 21:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/14/25 10:55	05/14/25 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*105*		*70 - 130*	*05/14/25 10:55*	*05/14/25 21:26*	*1*
o-Terphenyl (Surr)	*92*		*70 - 130*	*05/14/25 10:55*	*05/14/25 21:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**441**		9.94		mg/Kg			05/15/25 11:48	1

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-58111-27
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/14/25 11:07	05/15/25 17:38	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/14/25 11:07	05/15/25 17:38	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/14/25 11:07	05/15/25 17:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/14/25 11:07	05/15/25 17:38	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/14/25 11:07	05/15/25 17:38	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/14/25 11:07	05/15/25 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*05/14/25 11:07*	*05/15/25 17:38*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*05/14/25 11:07*	*05/15/25 17:38*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/15/25 17:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/14/25 21:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/14/25 10:55	05/14/25 21:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/14/25 10:55	05/14/25 21:43	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-58111-27
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/14/25 10:55	05/14/25 21:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*104*		*70 - 130*	*05/14/25 10:55*	*05/14/25 21:43*	*1*
o-Terphenyl (Surr)	*91*		*70 - 130*	*05/14/25 10:55*	*05/14/25 21:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**235**		9.98		mg/Kg			05/15/25 11:53	1

Client Sample ID: S-5 (2.0')

Lab Sample ID: 880-58111-28
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:07	05/15/25 17:58	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:07	05/15/25 17:58	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:07	05/15/25 17:58	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/14/25 11:07	05/15/25 17:58	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/14/25 11:07	05/15/25 17:58	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/14/25 11:07	05/15/25 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/14/25 11:07*	*05/15/25 17:58*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*05/14/25 11:07*	*05/15/25 17:58*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/15/25 17:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/14/25 21:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/14/25 10:55	05/14/25 21:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/14/25 10:55	05/14/25 21:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/14/25 10:55	05/14/25 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*109*		*70 - 130*	*05/14/25 10:55*	*05/14/25 21:59*	*1*
o-Terphenyl (Surr)	*97*		*70 - 130*	*05/14/25 10:55*	*05/14/25 21:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**222**		10.0		mg/Kg			05/15/25 11:58	1

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-5 (3.0')

Lab Sample ID: 880-58111-29
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:07	05/15/25 18:19	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:07	05/15/25 18:19	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:07	05/15/25 18:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/14/25 11:07	05/15/25 18:19	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/14/25 11:07	05/15/25 18:19	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/14/25 11:07	05/15/25 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*	*05/14/25 11:07*	*05/15/25 18:19*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*05/14/25 11:07*	*05/15/25 18:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			05/15/25 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7		mg/Kg			05/14/25 22:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		05/14/25 10:55	05/14/25 22:30	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		05/14/25 10:55	05/14/25 22:30	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		05/14/25 10:55	05/14/25 22:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*83*		*70 - 130*	*05/14/25 10:55*	*05/14/25 22:30*	*1*
o-Terphenyl (Surr)	*85*		*70 - 130*	*05/14/25 10:55*	*05/14/25 22:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**204**		10.1		mg/Kg			05/15/25 12:04	1

Client Sample ID: S-5 (4.0')

Lab Sample ID: 880-58111-30
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:07	05/15/25 18:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:07	05/15/25 18:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:07	05/15/25 18:39	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/14/25 11:07	05/15/25 18:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:07	05/15/25 18:39	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/14/25 11:07	05/15/25 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*	*05/14/25 11:07*	*05/15/25 18:39*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*05/14/25 11:07*	*05/15/25 18:39*	*1*

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-5 (4.0')

Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58111-30

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			05/15/25 18:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/14/25 22:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/14/25 10:55	05/14/25 22:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/14/25 10:55	05/14/25 22:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/14/25 10:55	05/14/25 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*05/14/25 10:55*	*05/14/25 22:47*	*1*
o-Terphenyl (Surr)	*87*		*70 - 130*	*05/14/25 10:55*	*05/14/25 22:47*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**137**		10.1		mg/Kg			05/15/25 12:09	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-58111-1	S-1 (0-1.0')	101	99										
880-58111-1 MS	S-1 (0-1.0')	100	103										
880-58111-1 MSD	S-1 (0-1.0')	98	104										
880-58111-2	S-1 (1.5')	131 S1+	81										
880-58111-3	S-1 (2.0')	110	101										
880-58111-4	S-1 (3.0')	122	96										
880-58111-5	S-1 (4.0')	113	98										
880-58111-6	S-2 (0-1.0')	116	96										
880-58111-7	S-2 (1.5')	110	97										
880-58111-8	S-2 (2.0')	116	97										
880-58111-9	S-2 (3.0')	110	97										
880-58111-10	S-2 (4.0')	114	97										
880-58111-11	S-2 (5.0')	113	99										
880-58111-12	S-2 (6.0')	112	97										
880-58111-13	S-2 (7.0')	117	97										
880-58111-14	S-2 (8.0')	112	98										
880-58111-15	S-2 (9.0')	110	98										
880-58111-16	S-3 (0-1.0')	109	97										
880-58111-17	S-3 (1.5')	112	97										
880-58111-18	S-3 (2.0')	110	98										
880-58111-19	S-3 (3.0')	110	96										
880-58111-20	S-3 (4.0')	120	94										
880-58111-21	S-4 (0-1.0')	91	113										
880-58111-21 MS	S-4 (0-1.0')	88	107										
880-58111-21 MSD	S-4 (0-1.0')	95	110										
880-58111-22	S-4 (1.5')	89	110										
880-58111-23	S-4 (2.0')	91	114										
880-58111-24	S-4 (3.0')	88	106										
880-58111-25	S-4 (4.0')	90	112										
880-58111-26	S-5 (0-1.0')	94	102										
880-58111-27	S-5 (1.5')	96	109										
880-58111-28	S-5 (2.0')	98	109										
880-58111-29	S-5 (3.0')	89	110										
880-58111-30	S-5 (4.0')	96	106										
LCS 880-110112/1-A	Lab Control Sample	112	104										
LCS 880-110113/1-A	Lab Control Sample	81	106										
LCSD 880-110112/2-A	Lab Control Sample Dup	113	101										
LCSD 880-110113/2-A	Lab Control Sample Dup	92	112										
MB 880-110058/5-B	Method Blank	102	97										
MB 880-110112/5-A	Method Blank	104	92										
MB 880-110113/5-A	Method Blank	71	121										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Carmona Resources
Job ID: 880-58111-1
Project/Site: Lea Federal Unit 21H
SDG: Lea County, New Mexico

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

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

		Percent Surrogate Recovery (Acceptance Limits)									
		1CO1	OTPH1								
Lab Sample ID	Client Sample ID	(70-130)	(70-130)								
880-58110-A-6-B MS	Matrix Spike	86	93								
880-58110-A-6-C MSD	Matrix Spike Duplicate	87	95								
880-58111-1	S-1 (0-1.0')	93	110								
880-58111-2	S-1 (1.5')	94	92								
880-58111-3	S-1 (2.0')	94	93								
880-58111-4	S-1 (3.0')	94	94								
880-58111-5	S-1 (4.0')	96	98								
880-58111-6	S-2 (0-1.0')	94	95								
880-58111-7	S-2 (1.5')	94	94								
880-58111-8	S-2 (2.0')	93	94								
880-58111-9	S-2 (3.0')	95	94								
880-58111-10	S-2 (4.0')	91	89								
880-58111-11	S-2 (5.0')	93	93								
880-58111-12	S-2 (6.0')	89	89								
880-58111-13	S-2 (7.0')	92	91								
880-58111-14	S-2 (8.0')	92	92								
880-58111-15	S-2 (9.0')	90	90								
880-58111-16	S-3 (0-1.0')	90	91								
880-58111-17	S-3 (1.5')	92	92								
880-58111-18	S-3 (2.0')	99	100								
880-58111-19	S-3 (3.0')	115	104								
880-58111-19 MS	S-3 (3.0')	100	99								
880-58111-19 MSD	S-3 (3.0')	101	99								
880-58111-20	S-3 (4.0')	112	101								
880-58111-21	S-4 (0-1.0')	112	99								
880-58111-22	S-4 (1.5')	114	103								
880-58111-23	S-4 (2.0')	110	98								
880-58111-24	S-4 (3.0')	108	97								
880-58111-25	S-4 (4.0')	109	97								
880-58111-26	S-5 (0-1.0')	105	92								
880-58111-27	S-5 (1.5')	104	91								
880-58111-28	S-5 (2.0')	109	97								
880-58111-29	S-5 (3.0')	83	85								
880-58111-30	S-5 (4.0')	85	87								
LCS 880-110109/2-A	Lab Control Sample	131 S1+	133 S1+								
LCS 880-110110/2-A	Lab Control Sample	141 S1+	133 S1+								
LCSD 880-110109/3-A	Lab Control Sample Dup	140 S1+	124								
LCSD 880-110110/3-A	Lab Control Sample Dup	140 S1+	133 S1+								
MB 880-110109/1-A	Method Blank	87	89								
MB 880-110110/1-A	Method Blank	106	96								

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-110058/5-B
Matrix: Solid
Analysis Batch: 110092

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110058

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/14/25 08:00	05/14/25 11:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/25 08:00	05/14/25 11:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/25 08:00	05/14/25 11:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/14/25 08:00	05/14/25 11:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/25 08:00	05/14/25 11:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/14/25 08:00	05/14/25 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*05/14/25 08:00*	*05/14/25 11:27*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*05/14/25 08:00*	*05/14/25 11:27*	*1*

Lab Sample ID: MB 880-110112/5-A
Matrix: Solid
Analysis Batch: 110092

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/14/25 22:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/14/25 22:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/14/25 22:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/14/25 11:05	05/14/25 22:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:05	05/14/25 22:27	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/14/25 11:05	05/14/25 22:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*05/14/25 11:05*	*05/14/25 22:27*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*05/14/25 11:05*	*05/14/25 22:27*	*1*

Lab Sample ID: LCS 880-110112/1-A
Matrix: Solid
Analysis Batch: 110092

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110112

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09023		mg/Kg		90	70 - 130		
Toluene			0.100	0.09624		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.1004		mg/Kg		100	70 - 130		
m-Xylene & p-Xylene			0.200	0.2009		mg/Kg		100	70 - 130		
o-Xylene			0.100	0.1012		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-110112/2-A
Matrix: Solid
Analysis Batch: 110092

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110112

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.09063		mg/Kg		91	70 - 130	0	35

QC Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-110112/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110092 — **Prep Batch: 110112**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09646		mg/Kg		96	70 - 130	0	35
Ethylbenzene			0.100	0.1003		mg/Kg		100	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.2003		mg/Kg		100	70 - 130	0	35
o-Xylene			0.100	0.1009		mg/Kg		101	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 880-58111-1 MS — **Client Sample ID: S-1 (0-1.0')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110092 — **Prep Batch: 110112**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.07762		mg/Kg		78	70 - 130
Toluene	<0.00200	U	0.100	0.07432		mg/Kg		74	70 - 130
Ethylbenzene	<0.00200	U F1	0.100	0.06554	F1	mg/Kg		66	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1264	F1	mg/Kg		63	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.06248	F1	mg/Kg		62	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-58111-1 MSD — **Client Sample ID: S-1 (0-1.0')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110092 — **Prep Batch: 110112**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.07917		mg/Kg		79	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.07444		mg/Kg		74	70 - 130	0	35
Ethylbenzene	<0.00200	U F1	0.100	0.06510	F1	mg/Kg		65	70 - 130	1	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1222	F1	mg/Kg		61	70 - 130	3	35
o-Xylene	<0.00200	U F1	0.100	0.05980	F1	mg/Kg		60	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 880-110113/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110227 — **Prep Batch: 110113**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:07	05/15/25 15:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:07	05/15/25 15:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:07	05/15/25 15:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/14/25 11:07	05/15/25 15:14	1

QC Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-110113/5-A
Matrix: Solid
Analysis Batch: 110227

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110113

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/14/25 11:07	05/15/25 15:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/14/25 11:07	05/15/25 15:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*	*05/14/25 11:07*	*05/15/25 15:14*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*05/14/25 11:07*	*05/15/25 15:14*	*1*

Lab Sample ID: LCS 880-110113/1-A
Matrix: Solid
Analysis Batch: 110227

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110113

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08596		mg/Kg		86	70 - 130
Toluene	0.100	0.08236		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.08007		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	0.200	0.1671		mg/Kg		84	70 - 130
o-Xylene	0.100	0.08273		mg/Kg		83	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-110113/2-A
Matrix: Solid
Analysis Batch: 110227

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110113

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.09399		mg/Kg		94	70 - 130	9	35
Toluene	0.100	0.08956		mg/Kg		90	70 - 130	8	35
Ethylbenzene	0.100	0.08986		mg/Kg		90	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1907		mg/Kg		95	70 - 130	13	35
o-Xylene	0.100	0.09439		mg/Kg		94	70 - 130	13	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 880-58111-21 MS
Matrix: Solid
Analysis Batch: 110227

Client Sample ID: S-4 (0-1.0')
Prep Type: Total/NA
Prep Batch: 110113

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1	0.100	0.06584	F1	mg/Kg		66	70 - 130
Toluene	<0.00200	U F1	0.100	0.05168	F1	mg/Kg		52	70 - 130
Ethylbenzene	<0.00200	U F1	0.100	0.04342	F1	mg/Kg		43	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.09267	F1	mg/Kg		46	70 - 130
o-Xylene	<0.00200	U F1	0.100	0.04819	F1	mg/Kg		48	70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-58111-21 MS
Matrix: Solid
Analysis Batch: 110227

Client Sample ID: S-4 (0-1.0')
Prep Type: Total/NA
Prep Batch: 110113

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-58111-21 MSD
Matrix: Solid
Analysis Batch: 110227

Client Sample ID: S-4 (0-1.0')
Prep Type: Total/NA
Prep Batch: 110113

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1	0.100	0.06383	F1	mg/Kg		64	70 - 130	3	35
Toluene	<0.00200	U F1	0.100	0.05135	F1	mg/Kg		51	70 - 130	1	35
Ethylbenzene	<0.00200	U F1	0.100	0.04336	F1	mg/Kg		43	70 - 130	0	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.09325	F1	mg/Kg		47	70 - 130	1	35
o-Xylene	<0.00200	U F1	0.100	0.04819	F1	mg/Kg		48	70 - 130	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

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

Lab Sample ID: MB 880-110109/1-A
Matrix: Solid
Analysis Batch: 110100

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110109

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/14/25 10:50	05/15/25 02:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/14/25 10:50	05/15/25 02:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/14/25 10:50	05/15/25 02:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	*87*		*70 - 130*	*05/14/25 10:50*	*05/15/25 02:16*	*1*
o-Terphenyl (Surr)	*89*		*70 - 130*	*05/14/25 10:50*	*05/15/25 02:16*	*1*

Lab Sample ID: LCS 880-110109/2-A
Matrix: Solid
Analysis Batch: 110100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110109

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	975.1		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1137		mg/Kg		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	*131*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*133*	*S1+*	*70 - 130*

QC Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCSD 880-110109/3-A
Matrix: Solid
Analysis Batch: 110100

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110109

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	919.1		mg/Kg		92	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	1000		mg/Kg		100	70 - 130	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*140*	*S1+*	*70 - 130*
o-Terphenyl (Surr)	*124*		*70 - 130*

Lab Sample ID: 880-58110-A-6-B MS
Matrix: Solid
Analysis Batch: 110100

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 110109

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	997	748.7		mg/Kg		75	70 - 130
Diesel Range Organics (Over C10-C28)	<50.1	U	997	828.9		mg/Kg		82	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane (Surr)	*86*		*70 - 130*
o-Terphenyl (Surr)	*93*		*70 - 130*

Lab Sample ID: 880-58110-A-6-C MSD
Matrix: Solid
Analysis Batch: 110100

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 110109

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	997	762.0		mg/Kg		76	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.1	U	997	831.1		mg/Kg		82	70 - 130	0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*87*		*70 - 130*
o-Terphenyl (Surr)	*95*		*70 - 130*

Lab Sample ID: MB 880-110110/1-A
Matrix: Solid
Analysis Batch: 110103

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110110

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/14/25 10:55	05/14/25 18:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/14/25 10:55	05/14/25 18:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/14/25 10:55	05/14/25 18:13	1

QC Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

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

Lab Sample ID: MB 880-110110/1-A
Matrix: Solid
Analysis Batch: 110103

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 110110

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	106		70 - 130	05/14/25 10:55	05/14/25 18:13	1
o-Terphenyl (Surr)	96		70 - 130	05/14/25 10:55	05/14/25 18:13	1

Lab Sample ID: LCS 880-110110/2-A
Matrix: Solid
Analysis Batch: 110103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 110110

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	1153		mg/Kg		115	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1177		mg/Kg		118	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	141	S1+	70 - 130
o-Terphenyl (Surr)	133	S1+	70 - 130

Lab Sample ID: LCSD 880-110110/3-A
Matrix: Solid
Analysis Batch: 110103

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 110110

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1145		mg/Kg		114	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1187		mg/Kg		119	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	140	S1+	70 - 130
o-Terphenyl (Surr)	133	S1+	70 - 130

Lab Sample ID: 880-58111-19 MS
Matrix: Solid
Analysis Batch: 110103

Client Sample ID: S-3 (3.0')
Prep Type: Total/NA
Prep Batch: 110110

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	999	912.2		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.1	U	999	947.4		mg/Kg		95	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	100		70 - 130
o-Terphenyl (Surr)	99		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-58111-19 MSD — **Client Sample ID: S-3 (3.0')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 110103 — **Prep Batch: 110110**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	999	902.3		mg/Kg		90	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.1	U	999	959.5		mg/Kg		96	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane (Surr)	*101*		*70 - 130*
o-Terphenyl (Surr)	*99*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-110122/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 110158

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/14/25 18:46	1

Lab Sample ID: LCS 880-110122/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 110158

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	259.6		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-110122/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 110158

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	257.4		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 880-58111-2 MS — **Client Sample ID: S-1 (1.5')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 110158

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	359		250	594.6		mg/Kg		94	90 - 110

Lab Sample ID: 880-58111-2 MSD — **Client Sample ID: S-1 (1.5')**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 110158

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	359		250	595.9		mg/Kg		95	90 - 110	0	20

QC Sample Results

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-110123/1-A
Matrix: Solid
Analysis Batch: 110163

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			05/15/25 09:38	1

Lab Sample ID: LCS 880-110123/2-A
Matrix: Solid
Analysis Batch: 110163

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	241.3		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-110123/3-A
Matrix: Solid
Analysis Batch: 110163

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	242.6		mg/Kg		97	90 - 110	1	20

Lab Sample ID: 880-58111-12 MS
Matrix: Solid
Analysis Batch: 110163

Client Sample ID: S-2 (6.0')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	193	F1	250	478.1	F1	mg/Kg		114	90 - 110		

Lab Sample ID: 880-58111-12 MSD
Matrix: Solid
Analysis Batch: 110163

Client Sample ID: S-2 (6.0')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	193	F1	250	472.5	F1	mg/Kg		112	90 - 110	1	20

Lab Sample ID: 880-58111-22 MS
Matrix: Solid
Analysis Batch: 110163

Client Sample ID: S-4 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	648		248	882.3		mg/Kg		94	90 - 110		

Lab Sample ID: 880-58111-22 MSD
Matrix: Solid
Analysis Batch: 110163

Client Sample ID: S-4 (1.5')
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	648		248	881.7		mg/Kg		94	90 - 110	0	20

QC Association Summary

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

GC VOA

Prep Batch: 110058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-110058/5-B	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 110092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58111-1	S-1 (0-1.0')	Total/NA	Solid	8021B	110112
880-58111-2	S-1 (1.5')	Total/NA	Solid	8021B	110112
880-58111-3	S-1 (2.0')	Total/NA	Solid	8021B	110112
880-58111-4	S-1 (3.0')	Total/NA	Solid	8021B	110112
880-58111-5	S-1 (4.0')	Total/NA	Solid	8021B	110112
880-58111-6	S-2 (0-1.0')	Total/NA	Solid	8021B	110112
880-58111-7	S-2 (1.5')	Total/NA	Solid	8021B	110112
880-58111-8	S-2 (2.0')	Total/NA	Solid	8021B	110112
880-58111-9	S-2 (3.0')	Total/NA	Solid	8021B	110112
880-58111-10	S-2 (4.0')	Total/NA	Solid	8021B	110112
880-58111-11	S-2 (5.0')	Total/NA	Solid	8021B	110112
880-58111-12	S-2 (6.0')	Total/NA	Solid	8021B	110112
880-58111-13	S-2 (7.0')	Total/NA	Solid	8021B	110112
880-58111-14	S-2 (8.0')	Total/NA	Solid	8021B	110112
880-58111-15	S-2 (9.0')	Total/NA	Solid	8021B	110112
880-58111-16	S-3 (0-1.0')	Total/NA	Solid	8021B	110112
880-58111-17	S-3 (1.5')	Total/NA	Solid	8021B	110112
880-58111-18	S-3 (2.0')	Total/NA	Solid	8021B	110112
880-58111-19	S-3 (3.0')	Total/NA	Solid	8021B	110112
880-58111-20	S-3 (4.0')	Total/NA	Solid	8021B	110112
MB 880-110058/5-B	Method Blank	Total/NA	Solid	8021B	110058
MB 880-110112/5-A	Method Blank	Total/NA	Solid	8021B	110112
LCS 880-110112/1-A	Lab Control Sample	Total/NA	Solid	8021B	110112
LCSD 880-110112/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110112
880-58111-1 MS	S-1 (0-1.0')	Total/NA	Solid	8021B	110112
880-58111-1 MSD	S-1 (0-1.0')	Total/NA	Solid	8021B	110112

Prep Batch: 110112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58111-1	S-1 (0-1.0')	Total/NA	Solid	5035	
880-58111-2	S-1 (1.5')	Total/NA	Solid	5035	
880-58111-3	S-1 (2.0')	Total/NA	Solid	5035	
880-58111-4	S-1 (3.0')	Total/NA	Solid	5035	
880-58111-5	S-1 (4.0')	Total/NA	Solid	5035	
880-58111-6	S-2 (0-1.0')	Total/NA	Solid	5035	
880-58111-7	S-2 (1.5')	Total/NA	Solid	5035	
880-58111-8	S-2 (2.0')	Total/NA	Solid	5035	
880-58111-9	S-2 (3.0')	Total/NA	Solid	5035	
880-58111-10	S-2 (4.0')	Total/NA	Solid	5035	
880-58111-11	S-2 (5.0')	Total/NA	Solid	5035	
880-58111-12	S-2 (6.0')	Total/NA	Solid	5035	
880-58111-13	S-2 (7.0')	Total/NA	Solid	5035	
880-58111-14	S-2 (8.0')	Total/NA	Solid	5035	
880-58111-15	S-2 (9.0')	Total/NA	Solid	5035	
880-58111-16	S-3 (0-1.0')	Total/NA	Solid	5035	
880-58111-17	S-3 (1.5')	Total/NA	Solid	5035	
880-58111-18	S-3 (2.0')	Total/NA	Solid	5035	

QC Association Summary

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Prep Batch: 110112 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58111-19	S-3 (3.0')	Total/NA	Solid	5035	
880-58111-20	S-3 (4.0')	Total/NA	Solid	5035	
MB 880-110112/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110112/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110112/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-58111-1 MS	S-1 (0-1.0')	Total/NA	Solid	5035	
880-58111-1 MSD	S-1 (0-1.0')	Total/NA	Solid	5035	

Prep Batch: 110113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58111-21	S-4 (0-1.0')	Total/NA	Solid	5035	
880-58111-22	S-4 (1.5')	Total/NA	Solid	5035	
880-58111-23	S-4 (2.0')	Total/NA	Solid	5035	
880-58111-24	S-4 (3.0')	Total/NA	Solid	5035	
880-58111-25	S-4 (4.0')	Total/NA	Solid	5035	
880-58111-26	S-5 (0-1.0')	Total/NA	Solid	5035	
880-58111-27	S-5 (1.5')	Total/NA	Solid	5035	
880-58111-28	S-5 (2.0')	Total/NA	Solid	5035	
880-58111-29	S-5 (3.0')	Total/NA	Solid	5035	
880-58111-30	S-5 (4.0')	Total/NA	Solid	5035	
MB 880-110113/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-110113/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-110113/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-58111-21 MS	S-4 (0-1.0')	Total/NA	Solid	5035	
880-58111-21 MSD	S-4 (0-1.0')	Total/NA	Solid	5035	

Analysis Batch: 110212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58111-1	S-1 (0-1.0')	Total/NA	Solid	Total BTEX	
880-58111-2	S-1 (1.5')	Total/NA	Solid	Total BTEX	
880-58111-3	S-1 (2.0')	Total/NA	Solid	Total BTEX	
880-58111-4	S-1 (3.0')	Total/NA	Solid	Total BTEX	
880-58111-5	S-1 (4.0')	Total/NA	Solid	Total BTEX	
880-58111-6	S-2 (0-1.0')	Total/NA	Solid	Total BTEX	
880-58111-7	S-2 (1.5')	Total/NA	Solid	Total BTEX	
880-58111-8	S-2 (2.0')	Total/NA	Solid	Total BTEX	
880-58111-9	S-2 (3.0')	Total/NA	Solid	Total BTEX	
880-58111-10	S-2 (4.0')	Total/NA	Solid	Total BTEX	
880-58111-11	S-2 (5.0')	Total/NA	Solid	Total BTEX	
880-58111-12	S-2 (6.0')	Total/NA	Solid	Total BTEX	
880-58111-13	S-2 (7.0')	Total/NA	Solid	Total BTEX	
880-58111-14	S-2 (8.0')	Total/NA	Solid	Total BTEX	
880-58111-15	S-2 (9.0')	Total/NA	Solid	Total BTEX	
880-58111-16	S-3 (0-1.0')	Total/NA	Solid	Total BTEX	
880-58111-17	S-3 (1.5')	Total/NA	Solid	Total BTEX	
880-58111-18	S-3 (2.0')	Total/NA	Solid	Total BTEX	
880-58111-19	S-3 (3.0')	Total/NA	Solid	Total BTEX	
880-58111-20	S-3 (4.0')	Total/NA	Solid	Total BTEX	
880-58111-21	S-4 (0-1.0')	Total/NA	Solid	Total BTEX	
880-58111-22	S-4 (1.5')	Total/NA	Solid	Total BTEX	
880-58111-23	S-4 (2.0')	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 110212 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58111-24	S-4 (3.0')	Total/NA	Solid	Total BTEX	
880-58111-25	S-4 (4.0')	Total/NA	Solid	Total BTEX	
880-58111-26	S-5 (0-1.0')	Total/NA	Solid	Total BTEX	
880-58111-27	S-5 (1.5')	Total/NA	Solid	Total BTEX	
880-58111-28	S-5 (2.0')	Total/NA	Solid	Total BTEX	
880-58111-29	S-5 (3.0')	Total/NA	Solid	Total BTEX	
880-58111-30	S-5 (4.0')	Total/NA	Solid	Total BTEX	

Analysis Batch: 110227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58111-21	S-4 (0-1.0')	Total/NA	Solid	8021B	110113
880-58111-22	S-4 (1.5')	Total/NA	Solid	8021B	110113
880-58111-23	S-4 (2.0')	Total/NA	Solid	8021B	110113
880-58111-24	S-4 (3.0')	Total/NA	Solid	8021B	110113
880-58111-25	S-4 (4.0')	Total/NA	Solid	8021B	110113
880-58111-26	S-5 (0-1.0')	Total/NA	Solid	8021B	110113
880-58111-27	S-5 (1.5')	Total/NA	Solid	8021B	110113
880-58111-28	S-5 (2.0')	Total/NA	Solid	8021B	110113
880-58111-29	S-5 (3.0')	Total/NA	Solid	8021B	110113
880-58111-30	S-5 (4.0')	Total/NA	Solid	8021B	110113
MB 880-110113/5-A	Method Blank	Total/NA	Solid	8021B	110113
LCS 880-110113/1-A	Lab Control Sample	Total/NA	Solid	8021B	110113
LCSD 880-110113/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	110113
880-58111-21 MS	S-4 (0-1.0')	Total/NA	Solid	8021B	110113
880-58111-21 MSD	S-4 (0-1.0')	Total/NA	Solid	8021B	110113

GC Semi VOA

Analysis Batch: 110100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58111-1	S-1 (0-1.0')	Total/NA	Solid	8015B NM	110109
880-58111-2	S-1 (1.5')	Total/NA	Solid	8015B NM	110109
880-58111-3	S-1 (2.0')	Total/NA	Solid	8015B NM	110109
880-58111-4	S-1 (3.0')	Total/NA	Solid	8015B NM	110109
880-58111-5	S-1 (4.0')	Total/NA	Solid	8015B NM	110109
880-58111-6	S-2 (0-1.0')	Total/NA	Solid	8015B NM	110109
880-58111-7	S-2 (1.5')	Total/NA	Solid	8015B NM	110109
880-58111-8	S-2 (2.0')	Total/NA	Solid	8015B NM	110109
880-58111-9	S-2 (3.0')	Total/NA	Solid	8015B NM	110109
880-58111-10	S-2 (4.0')	Total/NA	Solid	8015B NM	110109
880-58111-11	S-2 (5.0')	Total/NA	Solid	8015B NM	110109
880-58111-12	S-2 (6.0')	Total/NA	Solid	8015B NM	110109
880-58111-13	S-2 (7.0')	Total/NA	Solid	8015B NM	110109
880-58111-14	S-2 (8.0')	Total/NA	Solid	8015B NM	110109
880-58111-15	S-2 (9.0')	Total/NA	Solid	8015B NM	110109
880-58111-16	S-3 (0-1.0')	Total/NA	Solid	8015B NM	110109
880-58111-17	S-3 (1.5')	Total/NA	Solid	8015B NM	110109
880-58111-18	S-3 (2.0')	Total/NA	Solid	8015B NM	110109
MB 880-110109/1-A	Method Blank	Total/NA	Solid	8015B NM	110109
LCS 880-110109/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110109
LCSD 880-110109/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110109

QC Association Summary

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 110100 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58110-A-6-B MS	Matrix Spike	Total/NA	Solid	8015B NM	110109
880-58110-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	110109

Analysis Batch: 110103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58111-19	S-3 (3.0')	Total/NA	Solid	8015B NM	110110
880-58111-20	S-3 (4.0')	Total/NA	Solid	8015B NM	110110
880-58111-21	S-4 (0-1.0')	Total/NA	Solid	8015B NM	110110
880-58111-22	S-4 (1.5')	Total/NA	Solid	8015B NM	110110
880-58111-23	S-4 (2.0')	Total/NA	Solid	8015B NM	110110
880-58111-24	S-4 (3.0')	Total/NA	Solid	8015B NM	110110
880-58111-25	S-4 (4.0')	Total/NA	Solid	8015B NM	110110
880-58111-26	S-5 (0-1.0')	Total/NA	Solid	8015B NM	110110
880-58111-27	S-5 (1.5')	Total/NA	Solid	8015B NM	110110
880-58111-28	S-5 (2.0')	Total/NA	Solid	8015B NM	110110
880-58111-29	S-5 (3.0')	Total/NA	Solid	8015B NM	110110
880-58111-30	S-5 (4.0')	Total/NA	Solid	8015B NM	110110
MB 880-110110/1-A	Method Blank	Total/NA	Solid	8015B NM	110110
LCS 880-110110/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	110110
LCSD 880-110110/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	110110
880-58111-19 MS	S-3 (3.0')	Total/NA	Solid	8015B NM	110110
880-58111-19 MSD	S-3 (3.0')	Total/NA	Solid	8015B NM	110110

Prep Batch: 110109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58111-1	S-1 (0-1.0')	Total/NA	Solid	8015NM Prep	
880-58111-2	S-1 (1.5')	Total/NA	Solid	8015NM Prep	
880-58111-3	S-1 (2.0')	Total/NA	Solid	8015NM Prep	
880-58111-4	S-1 (3.0')	Total/NA	Solid	8015NM Prep	
880-58111-5	S-1 (4.0')	Total/NA	Solid	8015NM Prep	
880-58111-6	S-2 (0-1.0')	Total/NA	Solid	8015NM Prep	
880-58111-7	S-2 (1.5')	Total/NA	Solid	8015NM Prep	
880-58111-8	S-2 (2.0')	Total/NA	Solid	8015NM Prep	
880-58111-9	S-2 (3.0')	Total/NA	Solid	8015NM Prep	
880-58111-10	S-2 (4.0')	Total/NA	Solid	8015NM Prep	
880-58111-11	S-2 (5.0')	Total/NA	Solid	8015NM Prep	
880-58111-12	S-2 (6.0')	Total/NA	Solid	8015NM Prep	
880-58111-13	S-2 (7.0')	Total/NA	Solid	8015NM Prep	
880-58111-14	S-2 (8.0')	Total/NA	Solid	8015NM Prep	
880-58111-15	S-2 (9.0')	Total/NA	Solid	8015NM Prep	
880-58111-16	S-3 (0-1.0')	Total/NA	Solid	8015NM Prep	
880-58111-17	S-3 (1.5')	Total/NA	Solid	8015NM Prep	
880-58111-18	S-3 (2.0')	Total/NA	Solid	8015NM Prep	
MB 880-110109/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110109/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110109/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-58110-A-6-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-58110-A-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

GC Semi VOA

Prep Batch: 110110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58111-19	S-3 (3.0')	Total/NA	Solid	8015NM Prep	
880-58111-20	S-3 (4.0')	Total/NA	Solid	8015NM Prep	
880-58111-21	S-4 (0-1.0')	Total/NA	Solid	8015NM Prep	
880-58111-22	S-4 (1.5')	Total/NA	Solid	8015NM Prep	
880-58111-23	S-4 (2.0')	Total/NA	Solid	8015NM Prep	
880-58111-24	S-4 (3.0')	Total/NA	Solid	8015NM Prep	
880-58111-25	S-4 (4.0')	Total/NA	Solid	8015NM Prep	
880-58111-26	S-5 (0-1.0')	Total/NA	Solid	8015NM Prep	
880-58111-27	S-5 (1.5')	Total/NA	Solid	8015NM Prep	
880-58111-28	S-5 (2.0')	Total/NA	Solid	8015NM Prep	
880-58111-29	S-5 (3.0')	Total/NA	Solid	8015NM Prep	
880-58111-30	S-5 (4.0')	Total/NA	Solid	8015NM Prep	
MB 880-110110/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-110110/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-110110/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-58111-19 MS	S-3 (3.0')	Total/NA	Solid	8015NM Prep	
880-58111-19 MSD	S-3 (3.0')	Total/NA	Solid	8015NM Prep	

Analysis Batch: 110232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58111-1	S-1 (0-1.0')	Total/NA	Solid	8015 NM	
880-58111-2	S-1 (1.5')	Total/NA	Solid	8015 NM	
880-58111-3	S-1 (2.0')	Total/NA	Solid	8015 NM	
880-58111-4	S-1 (3.0')	Total/NA	Solid	8015 NM	
880-58111-5	S-1 (4.0')	Total/NA	Solid	8015 NM	
880-58111-6	S-2 (0-1.0')	Total/NA	Solid	8015 NM	
880-58111-7	S-2 (1.5')	Total/NA	Solid	8015 NM	
880-58111-8	S-2 (2.0')	Total/NA	Solid	8015 NM	
880-58111-9	S-2 (3.0')	Total/NA	Solid	8015 NM	
880-58111-10	S-2 (4.0')	Total/NA	Solid	8015 NM	
880-58111-11	S-2 (5.0')	Total/NA	Solid	8015 NM	
880-58111-12	S-2 (6.0')	Total/NA	Solid	8015 NM	
880-58111-13	S-2 (7.0')	Total/NA	Solid	8015 NM	
880-58111-14	S-2 (8.0')	Total/NA	Solid	8015 NM	
880-58111-15	S-2 (9.0')	Total/NA	Solid	8015 NM	
880-58111-16	S-3 (0-1.0')	Total/NA	Solid	8015 NM	
880-58111-17	S-3 (1.5')	Total/NA	Solid	8015 NM	
880-58111-18	S-3 (2.0')	Total/NA	Solid	8015 NM	
880-58111-19	S-3 (3.0')	Total/NA	Solid	8015 NM	
880-58111-20	S-3 (4.0')	Total/NA	Solid	8015 NM	
880-58111-21	S-4 (0-1.0')	Total/NA	Solid	8015 NM	
880-58111-22	S-4 (1.5')	Total/NA	Solid	8015 NM	
880-58111-23	S-4 (2.0')	Total/NA	Solid	8015 NM	
880-58111-24	S-4 (3.0')	Total/NA	Solid	8015 NM	
880-58111-25	S-4 (4.0')	Total/NA	Solid	8015 NM	
880-58111-26	S-5 (0-1.0')	Total/NA	Solid	8015 NM	
880-58111-27	S-5 (1.5')	Total/NA	Solid	8015 NM	
880-58111-28	S-5 (2.0')	Total/NA	Solid	8015 NM	
880-58111-29	S-5 (3.0')	Total/NA	Solid	8015 NM	
880-58111-30	S-5 (4.0')	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

HPLC/IC

Leach Batch: 110122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58111-1	S-1 (0-1.0')	Soluble	Solid	DI Leach	
880-58111-2	S-1 (1.5')	Soluble	Solid	DI Leach	
880-58111-3	S-1 (2.0')	Soluble	Solid	DI Leach	
880-58111-4	S-1 (3.0')	Soluble	Solid	DI Leach	
880-58111-5	S-1 (4.0')	Soluble	Solid	DI Leach	
880-58111-6	S-2 (0-1.0')	Soluble	Solid	DI Leach	
880-58111-7	S-2 (1.5')	Soluble	Solid	DI Leach	
880-58111-8	S-2 (2.0')	Soluble	Solid	DI Leach	
880-58111-9	S-2 (3.0')	Soluble	Solid	DI Leach	
880-58111-10	S-2 (4.0')	Soluble	Solid	DI Leach	
880-58111-11	S-2 (5.0')	Soluble	Solid	DI Leach	
MB 880-110122/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110122/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110122/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-58111-2 MS	S-1 (1.5')	Soluble	Solid	DI Leach	
880-58111-2 MSD	S-1 (1.5')	Soluble	Solid	DI Leach	

Leach Batch: 110123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58111-12	S-2 (6.0')	Soluble	Solid	DI Leach	
880-58111-13	S-2 (7.0')	Soluble	Solid	DI Leach	
880-58111-14	S-2 (8.0')	Soluble	Solid	DI Leach	
880-58111-15	S-2 (9.0')	Soluble	Solid	DI Leach	
880-58111-16	S-3 (0-1.0')	Soluble	Solid	DI Leach	
880-58111-17	S-3 (1.5')	Soluble	Solid	DI Leach	
880-58111-18	S-3 (2.0')	Soluble	Solid	DI Leach	
880-58111-19	S-3 (3.0')	Soluble	Solid	DI Leach	
880-58111-20	S-3 (4.0')	Soluble	Solid	DI Leach	
880-58111-21	S-4 (0-1.0')	Soluble	Solid	DI Leach	
880-58111-22	S-4 (1.5')	Soluble	Solid	DI Leach	
880-58111-23	S-4 (2.0')	Soluble	Solid	DI Leach	
880-58111-24	S-4 (3.0')	Soluble	Solid	DI Leach	
880-58111-25	S-4 (4.0')	Soluble	Solid	DI Leach	
880-58111-26	S-5 (0-1.0')	Soluble	Solid	DI Leach	
880-58111-27	S-5 (1.5')	Soluble	Solid	DI Leach	
880-58111-28	S-5 (2.0')	Soluble	Solid	DI Leach	
880-58111-29	S-5 (3.0')	Soluble	Solid	DI Leach	
880-58111-30	S-5 (4.0')	Soluble	Solid	DI Leach	
MB 880-110123/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-110123/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-110123/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-58111-12 MS	S-2 (6.0')	Soluble	Solid	DI Leach	
880-58111-12 MSD	S-2 (6.0')	Soluble	Solid	DI Leach	
880-58111-22 MS	S-4 (1.5')	Soluble	Solid	DI Leach	
880-58111-22 MSD	S-4 (1.5')	Soluble	Solid	DI Leach	

Analysis Batch: 110158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58111-1	S-1 (0-1.0')	Soluble	Solid	300.0	110122
880-58111-2	S-1 (1.5')	Soluble	Solid	300.0	110122
880-58111-3	S-1 (2.0')	Soluble	Solid	300.0	110122

QC Association Summary

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 110158 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58111-4	S-1 (3.0')	Soluble	Solid	300.0	110122
880-58111-5	S-1 (4.0')	Soluble	Solid	300.0	110122
880-58111-6	S-2 (0-1.0')	Soluble	Solid	300.0	110122
880-58111-7	S-2 (1.5')	Soluble	Solid	300.0	110122
880-58111-8	S-2 (2.0')	Soluble	Solid	300.0	110122
880-58111-9	S-2 (3.0')	Soluble	Solid	300.0	110122
880-58111-10	S-2 (4.0')	Soluble	Solid	300.0	110122
880-58111-11	S-2 (5.0')	Soluble	Solid	300.0	110122
MB 880-110122/1-A	Method Blank	Soluble	Solid	300.0	110122
LCS 880-110122/2-A	Lab Control Sample	Soluble	Solid	300.0	110122
LCSD 880-110122/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110122
880-58111-2 MS	S-1 (1.5')	Soluble	Solid	300.0	110122
880-58111-2 MSD	S-1 (1.5')	Soluble	Solid	300.0	110122

Analysis Batch: 110163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-58111-12	S-2 (6.0')	Soluble	Solid	300.0	110123
880-58111-13	S-2 (7.0')	Soluble	Solid	300.0	110123
880-58111-14	S-2 (8.0')	Soluble	Solid	300.0	110123
880-58111-15	S-2 (9.0')	Soluble	Solid	300.0	110123
880-58111-16	S-3 (0-1.0')	Soluble	Solid	300.0	110123
880-58111-17	S-3 (1.5')	Soluble	Solid	300.0	110123
880-58111-18	S-3 (2.0')	Soluble	Solid	300.0	110123
880-58111-19	S-3 (3.0')	Soluble	Solid	300.0	110123
880-58111-20	S-3 (4.0')	Soluble	Solid	300.0	110123
880-58111-21	S-4 (0-1.0')	Soluble	Solid	300.0	110123
880-58111-22	S-4 (1.5')	Soluble	Solid	300.0	110123
880-58111-23	S-4 (2.0')	Soluble	Solid	300.0	110123
880-58111-24	S-4 (3.0')	Soluble	Solid	300.0	110123
880-58111-25	S-4 (4.0')	Soluble	Solid	300.0	110123
880-58111-26	S-5 (0-1.0')	Soluble	Solid	300.0	110123
880-58111-27	S-5 (1.5')	Soluble	Solid	300.0	110123
880-58111-28	S-5 (2.0')	Soluble	Solid	300.0	110123
880-58111-29	S-5 (3.0')	Soluble	Solid	300.0	110123
880-58111-30	S-5 (4.0')	Soluble	Solid	300.0	110123
MB 880-110123/1-A	Method Blank	Soluble	Solid	300.0	110123
LCS 880-110123/2-A	Lab Control Sample	Soluble	Solid	300.0	110123
LCSD 880-110123/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	110123
880-58111-12 MS	S-2 (6.0')	Soluble	Solid	300.0	110123
880-58111-12 MSD	S-2 (6.0')	Soluble	Solid	300.0	110123
880-58111-22 MS	S-4 (1.5')	Soluble	Solid	300.0	110123
880-58111-22 MSD	S-4 (1.5')	Soluble	Solid	300.0	110123

Lab Chronicle

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (0-1.0')

Lab Sample ID: 880-58111-1
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110112	05/14/25 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110092	05/14/25 22:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/14/25 22:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/15/25 04:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110109	05/14/25 10:50	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/15/25 04:10	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110122	05/14/25 11:27	SA	EET MID
Soluble	Analysis	300.0		1			110158	05/14/25 20:35	CH	EET MID

Client Sample ID: S-1 (1.5')

Lab Sample ID: 880-58111-2
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110112	05/14/25 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110092	05/14/25 23:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/14/25 23:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/15/25 04:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110109	05/14/25 10:50	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/15/25 04:26	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	110122	05/14/25 11:27	SA	EET MID
Soluble	Analysis	300.0		1			110158	05/14/25 20:41	CH	EET MID

Client Sample ID: S-1 (2.0')

Lab Sample ID: 880-58111-3
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110112	05/14/25 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110092	05/14/25 23:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/14/25 23:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/15/25 04:44	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	110109	05/14/25 10:50	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/15/25 04:44	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110122	05/14/25 11:27	SA	EET MID
Soluble	Analysis	300.0		1			110158	05/14/25 21:02	CH	EET MID

Client Sample ID: S-1 (3.0')

Lab Sample ID: 880-58111-4
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	110112	05/14/25 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110092	05/14/25 23:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/14/25 23:50	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-1 (3.0')

Lab Sample ID: 880-58111-4
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			110232	05/15/25 05:00	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	110109	05/14/25 10:50	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/15/25 05:00	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	110122	05/14/25 11:27	SA	EET MID
Soluble	Analysis	300.0		1			110158	05/14/25 21:09	CH	EET MID

Client Sample ID: S-1 (4.0')

Lab Sample ID: 880-58111-5
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110112	05/14/25 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110092	05/15/25 00:11	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 00:11	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/15/25 05:17	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	110109	05/14/25 10:50	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/15/25 05:17	TKC	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	110122	05/14/25 11:27	SA	EET MID
Soluble	Analysis	300.0		1			110158	05/14/25 21:29	CH	EET MID

Client Sample ID: S-2 (0-1.0')

Lab Sample ID: 880-58111-6
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	110112	05/14/25 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110092	05/15/25 00:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 00:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/15/25 05:32	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	110109	05/14/25 10:50	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/15/25 05:32	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110122	05/14/25 11:27	SA	EET MID
Soluble	Analysis	300.0		5			110158	05/14/25 21:36	CH	EET MID

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-58111-7
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110112	05/14/25 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110092	05/15/25 00:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 00:52	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/15/25 05:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110109	05/14/25 10:50	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/15/25 05:49	TKC	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (1.5')

Lab Sample ID: 880-58111-7
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	110122	05/14/25 11:27	SA	EET MID
Soluble	Analysis	300.0		1			110158	05/14/25 21:43	CH	EET MID

Client Sample ID: S-2 (2.0')

Lab Sample ID: 880-58111-8
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	110112	05/14/25 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110092	05/15/25 01:12	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 01:12	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/15/25 06:05	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	110109	05/14/25 10:50	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/15/25 06:05	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110122	05/14/25 11:27	SA	EET MID
Soluble	Analysis	300.0		5			110158	05/14/25 21:49	CH	EET MID

Client Sample ID: S-2 (3.0')

Lab Sample ID: 880-58111-9
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	110112	05/14/25 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110092	05/15/25 01:32	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 01:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/15/25 06:37	SM	EET MID
Total/NA	Prep	8015NM Prep			10.09 g	10 mL	110109	05/14/25 10:50	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/15/25 06:37	TKC	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	110122	05/14/25 11:27	SA	EET MID
Soluble	Analysis	300.0		5			110158	05/14/25 21:56	CH	EET MID

Client Sample ID: S-2 (4.0')

Lab Sample ID: 880-58111-10
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110112	05/14/25 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110092	05/15/25 01:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 01:53	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/15/25 06:54	SM	EET MID
Total/NA	Prep	8015NM Prep			9.97 g	10 mL	110109	05/14/25 10:50	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/15/25 06:54	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110122	05/14/25 11:27	SA	EET MID
Soluble	Analysis	300.0		1			110158	05/14/25 22:03	CH	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (5.0')

Lab Sample ID: 880-58111-11
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	110112	05/14/25 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110092	05/15/25 03:27	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 03:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/15/25 07:10	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	110109	05/14/25 10:50	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/15/25 07:10	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110122	05/14/25 11:27	SA	EET MID
Soluble	Analysis	300.0		1			110158	05/14/25 22:10	CH	EET MID

Client Sample ID: S-2 (6.0')

Lab Sample ID: 880-58111-12
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110112	05/14/25 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110092	05/15/25 03:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 03:48	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/15/25 07:27	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110109	05/14/25 10:50	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/15/25 07:27	TKC	EET MID
Soluble	Leach	DI Leach			5.00 g	50 mL	110123	05/14/25 11:29	SA	EET MID
Soluble	Analysis	300.0		1			110163	05/15/25 09:54	SMC	EET MID

Client Sample ID: S-2 (7.0')

Lab Sample ID: 880-58111-13
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	110112	05/14/25 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110092	05/15/25 04:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 04:08	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/15/25 07:42	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110109	05/14/25 10:50	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/15/25 07:42	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110123	05/14/25 11:29	SA	EET MID
Soluble	Analysis	300.0		1			110163	05/15/25 10:09	SMC	EET MID

Client Sample ID: S-2 (8.0')

Lab Sample ID: 880-58111-14
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110112	05/14/25 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110092	05/15/25 04:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 04:28	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-2 (8.0')

Lab Sample ID: 880-58111-14
Date Collected: 05/13/25 00:00
Matrix: Solid
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			110232	05/15/25 08:00	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	110109	05/14/25 10:50	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/15/25 08:00	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110123	05/14/25 11:29	SA	EET MID
Soluble	Analysis	300.0		1			110163	05/15/25 10:15	SMC	EET MID

Client Sample ID: S-2 (9.0')

Lab Sample ID: 880-58111-15
Date Collected: 05/13/25 00:00
Matrix: Solid
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	110112	05/14/25 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110092	05/15/25 04:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 04:49	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/15/25 08:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110109	05/14/25 10:50	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/15/25 08:15	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110123	05/14/25 11:29	SA	EET MID
Soluble	Analysis	300.0		1			110163	05/15/25 10:20	SMC	EET MID

Client Sample ID: S-3 (0-1.0')

Lab Sample ID: 880-58111-16
Date Collected: 05/13/25 00:00
Matrix: Solid
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110112	05/14/25 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110092	05/15/25 05:09	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 05:09	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/15/25 08:33	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	110109	05/14/25 10:50	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/15/25 08:33	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110123	05/14/25 11:29	SA	EET MID
Soluble	Analysis	300.0		5			110163	05/15/25 10:25	SMC	EET MID

Client Sample ID: S-3 (1.5')

Lab Sample ID: 880-58111-17
Date Collected: 05/13/25 00:00
Matrix: Solid
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	110112	05/14/25 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110092	05/15/25 05:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 05:30	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/15/25 08:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	110109	05/14/25 10:50	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/15/25 08:49	TKC	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-3 (1.5')
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58111-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	110123	05/14/25 11:29	SA	EET MID
Soluble	Analysis	300.0		1			110163	05/15/25 10:41	SMC	EET MID

Client Sample ID: S-3 (2.0')
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58111-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	110112	05/14/25 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110092	05/15/25 05:50	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 05:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/15/25 09:05	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	110109	05/14/25 10:50	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110100	05/15/25 09:05	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110123	05/14/25 11:29	SA	EET MID
Soluble	Analysis	300.0		5			110163	05/15/25 10:46	SMC	EET MID

Client Sample ID: S-3 (3.0')
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58111-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	110112	05/14/25 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110092	05/15/25 06:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 06:10	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/14/25 19:02	SM	EET MID
Total/NA	Prep	8015NM Prep			9.99 g	10 mL	110110	05/14/25 10:55	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/14/25 19:02	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110123	05/14/25 11:29	SA	EET MID
Soluble	Analysis	300.0		5			110163	05/15/25 10:51	SMC	EET MID

Client Sample ID: S-3 (4.0')
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Lab Sample ID: 880-58111-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	110112	05/14/25 11:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110092	05/15/25 06:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 06:31	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/14/25 19:50	SM	EET MID
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	110110	05/14/25 10:55	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/14/25 19:50	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	110123	05/14/25 11:29	SA	EET MID
Soluble	Analysis	300.0		1			110163	05/15/25 10:56	SMC	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (0-1.0')

Lab Sample ID: 880-58111-21
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110113	05/14/25 11:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110227	05/15/25 15:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 15:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/14/25 20:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	110110	05/14/25 10:55	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/14/25 20:06	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	110123	05/14/25 11:29	SA	EET MID
Soluble	Analysis	300.0		1			110163	05/15/25 11:01	SMC	EET MID

Client Sample ID: S-4 (1.5')

Lab Sample ID: 880-58111-22
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110113	05/14/25 11:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110227	05/15/25 15:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 15:56	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/14/25 20:22	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110110	05/14/25 10:55	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/14/25 20:22	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	110123	05/14/25 11:29	SA	EET MID
Soluble	Analysis	300.0		1			110163	05/15/25 11:06	SMC	EET MID

Client Sample ID: S-4 (2.0')

Lab Sample ID: 880-58111-23
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110113	05/14/25 11:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110227	05/15/25 16:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 16:16	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/14/25 20:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.08 g	10 mL	110110	05/14/25 10:55	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/14/25 20:38	TKC	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	110123	05/14/25 11:29	SA	EET MID
Soluble	Analysis	300.0		1			110163	05/15/25 11:22	SMC	EET MID

Client Sample ID: S-4 (3.0')

Lab Sample ID: 880-58111-24
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	110113	05/14/25 11:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110227	05/15/25 16:36	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 16:36	SM	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-4 (3.0')

Lab Sample ID: 880-58111-24
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			110232	05/14/25 20:54	SM	EET MID
Total/NA	Prep	8015NM Prep			9.98 g	10 mL	110110	05/14/25 10:55	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/14/25 20:54	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110123	05/14/25 11:29	SA	EET MID
Soluble	Analysis	300.0		1			110163	05/15/25 11:27	SMC	EET MID

Client Sample ID: S-4 (4.0')

Lab Sample ID: 880-58111-25
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	110113	05/14/25 11:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110227	05/15/25 16:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 16:57	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/14/25 21:10	SM	EET MID
Total/NA	Prep	8015NM Prep			9.94 g	10 mL	110110	05/14/25 10:55	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/14/25 21:10	TKC	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	110123	05/14/25 11:29	SA	EET MID
Soluble	Analysis	300.0		1			110163	05/15/25 11:43	SMC	EET MID

Client Sample ID: S-5 (0-1.0')

Lab Sample ID: 880-58111-26
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	110113	05/14/25 11:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110227	05/15/25 17:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 17:17	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/14/25 21:26	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110110	05/14/25 10:55	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/14/25 21:26	TKC	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	110123	05/14/25 11:29	SA	EET MID
Soluble	Analysis	300.0		1			110163	05/15/25 11:48	SMC	EET MID

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-58111-27
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	110113	05/14/25 11:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110227	05/15/25 17:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 17:38	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/14/25 21:43	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	110110	05/14/25 10:55	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/14/25 21:43	TKC	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Client Sample ID: S-5 (1.5')

Lab Sample ID: 880-58111-27
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	110123	05/14/25 11:29	SA	EET MID
Soluble	Analysis	300.0		1			110163	05/15/25 11:53	SMC	EET MID

Client Sample ID: S-5 (2.0')

Lab Sample ID: 880-58111-28
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	110113	05/14/25 11:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110227	05/15/25 17:58	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 17:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/14/25 21:59	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	110110	05/14/25 10:55	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/14/25 21:59	TKC	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	110123	05/14/25 11:29	SA	EET MID
Soluble	Analysis	300.0		1			110163	05/15/25 11:58	SMC	EET MID

Client Sample ID: S-5 (3.0')

Lab Sample ID: 880-58111-29
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	110113	05/14/25 11:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110227	05/15/25 18:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 18:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/14/25 22:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	110110	05/14/25 10:55	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/14/25 22:30	TKC	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	110123	05/14/25 11:29	SA	EET MID
Soluble	Analysis	300.0		1			110163	05/15/25 12:04	SMC	EET MID

Client Sample ID: S-5 (4.0')

Lab Sample ID: 880-58111-30
Matrix: Solid
Date Collected: 05/13/25 00:00
Date Received: 05/13/25 17:03

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	110113	05/14/25 11:07	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	110227	05/15/25 18:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			110212	05/15/25 18:39	SM	EET MID
Total/NA	Analysis	8015 NM		1			110232	05/14/25 22:47	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	110110	05/14/25 10:55	FC	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	110103	05/14/25 22:47	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	110123	05/14/25 11:29	SA	EET MID
Soluble	Analysis	300.0		1			110163	05/15/25 12:09	SMC	EET MID

Lab Chronicle

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

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

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

Method Summary

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Lea Federal Unit 21H

Job ID: 880-58111-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-58111-1	S-1 (0-1.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-2	S-1 (1.5')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-3	S-1 (2.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-4	S-1 (3.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-5	S-1 (4.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-6	S-2 (0-1.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-7	S-2 (1.5')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-8	S-2 (2.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-9	S-2 (3.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-10	S-2 (4.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-11	S-2 (5.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-12	S-2 (6.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-13	S-2 (7.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-14	S-2 (8.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-15	S-2 (9.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-16	S-3 (0-1.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-17	S-3 (1.5')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-18	S-3 (2.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-19	S-3 (3.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-20	S-3 (4.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-21	S-4 (0-1.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-22	S-4 (1.5')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-23	S-4 (2.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-24	S-4 (3.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-25	S-4 (4.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-26	S-5 (0-1.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-27	S-5 (1.5')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-28	S-5 (2.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-29	S-5 (3.0')	Solid	05/13/25 00:00	05/13/25 17:03
880-58111-30	S-5 (4.0')	Solid	05/13/25 00:00	05/13/25 17:03

Chain of Custody

f 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

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:	Lea Federal Unit 21H	Turn Around	
Project Number:	2716	☑ Routine ☐ Rush	
Project Location	Lea County, New Mexico	Due Date:	Standard
Sampler's Name:	JR/GPJ		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0.1
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.3
Total Containers:		Corrected Temperature:	1.3

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Hold
S-1 (0-1.0')	5/13/2025		X		G	1	X	X	X	
S-1 (1.5')	5/13/2025		X		G	1	X	X	X	
S-1 (2.0')	5/13/2025		X		G	1	X	X	X	
S-1 (3.0')	5/13/2025		X		G	1	X	X	X	
S-1 (4.0')	5/13/2025		X		G	1	X	X	X	
S-2 (0-1.0')	5/13/2025		X		G	1	X	X	X	
S-2 (1.5')	5/13/2025		X		G	1	X	X	X	
S-2 (2.0')	5/13/2025		X		G	1	X	X	X	
S-2 (3.0')	5/13/2025		X		G	1	X	X	X	
S-2 (4.0')	5/13/2025		X		G	1	X	X	X	

Parameters

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
			5.13.25 1703

Chain of Custody

Work Order No: _____

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:	Lea Federal Unit 21H	Turn Around	
Project Number:	2716	☑ Routine	☐ Rush
Project Location	Lea County, New Mexico	Due Date:	Standard
Sampler's Name:	JR/GPJ		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_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 300.0	Hold	Sample Comments
S-2 (5.0')	5/13/2025		X		G	1		X	X	X		
S-2 (6.0')	5/13/2025		X		G	1		X	X	X		
S-2 (7.0')	5/13/2025		X		G	1		X	X	X		
S-2 (8.0')	5/13/2025		X		G	1		X	X	X		
S-2 (9.0')	5/13/2025		X		G	1		X	X	X		
S-3 (0-1.0')	5/13/2025		X		G	1		X	X	X		
S-3 (1.5')	5/13/2025		X		G	1		X	X	X		
S-3 (2.0')	5/13/2025		X		G	1		X	X	X		
S-3 (3.0')	5/13/2025		X		G	1		X	X	X		
S-3 (4.0')	5/13/2025		X		G	1		X	X	X		

Comments:

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

Chain of Custody

Work Order No: _____

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:	Lea Federal Unit 21H	Turn Around	
Project Number:	2716	☑ Routine	☐ Rush
Project Location	Lea County, New Mexico	Due Date:	Standard
Sampler's Name:	JR/GPJ		
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_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 300.0	Hold	Sample Comments
S-4 (0-1.0')	5/13/2025		X		G	1		X	X	X		
S-4 (1.5')	5/13/2025		X		G	1		X	X	X		
S-4 (2.0')	5/13/2025		X		G	1		X	X	X		
S-4 (3.0')	5/13/2025		X		G	1		X	X	X		
S-4 (4.0')	5/13/2025		X		G	1		X	X	X		
S-5 (0-1.0')	5/13/2025		X		G	1		X	X	X		
S-5 (1.5')	5/13/2025		X		G	1		X	X	X		
S-5 (2.0')	5/13/2025		X		G	1		X	X	X		
S-5 (3.0')	5/13/2025		X		G	1		X	X	X		
S-5 (4.0')	5/13/2025		X		G	1		X	X	X		

Comments:

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

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-58111-1
SDG Number: Lea County, New Mexico

Login Number: 58111
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

CARDINAL Laboratories

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

June 10, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: LEA UNIT 44H

Enclosed are the results of analyses for samples received by the laboratory on 06/05/25 15:05.

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:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/10/2025	Sampling Type:	Soil
Project Name:	LEA UNIT 44H	Sampling Condition:	Cool & Intact
Project Number:	2717	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NEW MEXICO		

Sample ID: H-1 (0-0.5') (H253379-01)

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	06/06/2025	ND	2.15	107	2.00	2.42	
Toluene*	<0.050	0.050	06/06/2025	ND	2.17	108	2.00	2.00	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.12	106	2.00	1.80	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.32	105	6.00	2.10	
Total BTEX	<0.300	0.300	06/06/2025	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	**64.0**	16.0	06/06/2025	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	06/06/2025	ND	216	108	200	0.997	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	212	106	200	0.109	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane *77.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *72.7 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

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:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/10/2025	Sampling Type:	Soil
Project Name:	LEA UNIT 44H	Sampling Condition:	Cool & Intact
Project Number:	2717	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NEW MEXICO		

Sample ID: H-2 (0-0.5') (H253379-02)

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	06/06/2025	ND	2.15	107	2.00	2.42	
Toluene*	<0.050	0.050	06/06/2025	ND	2.17	108	2.00	2.00	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.12	106	2.00	1.80	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.32	105	6.00	2.10	
Total BTEX	<0.300	0.300	06/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *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	**96.0**	16.0	06/06/2025	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	06/06/2025	ND	216	108	200	0.997	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	212	106	200	0.109	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane *69.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *66.7 %* *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:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/10/2025	Sampling Type:	Soil
Project Name:	LEA UNIT 44H	Sampling Condition:	Cool & Intact
Project Number:	2717	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NEW MEXICO		

Sample ID: H-3 (0-0.5') (H253379-03)

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	06/06/2025	ND	2.15	107	2.00	2.42	
Toluene*	<0.050	0.050	06/06/2025	ND	2.17	108	2.00	2.00	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.12	106	2.00	1.80	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.32	105	6.00	2.10	
Total BTEX	<0.300	0.300	06/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.1 %* *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	**128**	16.0	06/06/2025	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	06/06/2025	ND	216	108	200	0.997	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	212	106	200	0.109	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane *56.7 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *52.7 %* *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:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/10/2025	Sampling Type:	Soil
Project Name:	LEA UNIT 44H	Sampling Condition:	Cool & Intact
Project Number:	2717	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NEW MEXICO		

Sample ID: H-4 (0-0.5') (H253379-04)

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	06/06/2025	ND	2.15	107	2.00	2.42	
Toluene*	<0.050	0.050	06/06/2025	ND	2.17	108	2.00	2.00	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.12	106	2.00	1.80	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.32	105	6.00	2.10	
Total BTEX	<0.300	0.300	06/06/2025	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	**96.0**	16.0	06/06/2025	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	06/09/2025	ND	216	108	200	0.997	
DRO >C10-C28*	<10.0	10.0	06/09/2025	ND	212	106	200	0.109	
EXT DRO >C28-C36	<10.0	10.0	06/09/2025	ND					

Surrogate: 1-Chlorooctane *86.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *86.5 %* *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:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/10/2025	Sampling Type:	Soil
Project Name:	LEA UNIT 44H	Sampling Condition:	Cool & Intact
Project Number:	2717	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NEW MEXICO		

Sample ID: H-5 (0-0.5') (H253379-05)

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	06/06/2025	ND	2.15	107	2.00	2.42	
Toluene*	<0.050	0.050	06/06/2025	ND	2.17	108	2.00	2.00	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.12	106	2.00	1.80	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.32	105	6.00	2.10	
Total BTEX	<0.300	0.300	06/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.6 %* *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	**112**	16.0	06/06/2025	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	06/06/2025	ND	216	108	200	0.997	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	212	106	200	0.109	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane *68.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *63.6 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

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:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/10/2025	Sampling Type:	Soil
Project Name:	LEA UNIT 44H	Sampling Condition:	Cool & Intact
Project Number:	2717	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NEW MEXICO		

Sample ID: H-6 (0-0.5') (H253379-06)

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	06/06/2025	ND	2.15	107	2.00	2.42	
Toluene*	<0.050	0.050	06/06/2025	ND	2.17	108	2.00	2.00	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.12	106	2.00	1.80	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.32	105	6.00	2.10	
Total BTEX	<0.300	0.300	06/06/2025	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	**256**	16.0	06/06/2025	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	06/06/2025	ND	216	108	200	0.997	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	212	106	200	0.109	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane *59.6 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *54.5 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

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:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/10/2025	Sampling Type:	Soil
Project Name:	LEA UNIT 44H	Sampling Condition:	Cool & Intact
Project Number:	2717	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NEW MEXICO		

Sample ID: H-7 (0-0.5') (H253379-07)

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	06/06/2025	ND	2.15	107	2.00	2.42	
Toluene*	<0.050	0.050	06/06/2025	ND	2.17	108	2.00	2.00	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.12	106	2.00	1.80	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.32	105	6.00	2.10	
Total BTEX	<0.300	0.300	06/06/2025	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	**80.0**	16.0	06/06/2025	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	06/06/2025	ND	216	108	200	0.997	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	212	106	200	0.109	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane *76.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *72.4 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H253379

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:	Lea Unit 44H	Turn Around	☐ Routine ☑ Rush
Project Number:	2717	Due Date:	72 hr
Project Location	Lea County, New Mexico		
Sampler's Name:	JDC		
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:	5.2
Total Containers:		Corrected Temperature:	5.5

Preservative Codes

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

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Hold	Sample Comments
H-1 (0-0.5')	6/5/2025		X		G	1		X	X	X		
H-2 (0-0.5')	6/5/2025		X		G	1		X	X	X		
H-3 (0-0.5')	6/5/2025		X		G	1		X	X	X		
H-4 (0-0.5')	6/5/2025		X		G	1		X	X	X		
H-5 (0-0.5')	6/5/2025		X		G	1		X	X	X		
H-6 (0-0.5')	6/5/2025		X		G	1		X	X	X		
H-7 (0-0.5')	6/5/2025		X		G	1		X	X	X		

Comments:

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

CARDINAL Laboratories

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

June 06, 2025

ASHTON THIELKE

CARMONA RESOURCES

310 W WALL ST, SUITE 500

MIDLAND, TX 79701

RE: LEA UNIT 44H

Enclosed are the results of analyses for samples received by the laboratory on 06/05/25 15:05.

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:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/06/2025	Sampling Type:	Soil
Project Name:	LEA UNIT 44H	Sampling Condition:	Cool & Intact
Project Number:	2717	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NEW MEXICO		

Sample ID: CS-1 (1.5') (H253381-01)

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	06/06/2025	ND	2.27	113	2.00	3.05	
Toluene*	<0.050	0.050	06/06/2025	ND	2.07	104	2.00	4.22	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.07	103	2.00	3.73	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.36	106	6.00	3.75	
Total BTEX	<0.300	0.300	06/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.4 %* *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	**32.0**	16.0	06/06/2025	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	06/05/2025	ND	203	102	200	2.67	
DRO >C10-C28*	<10.0	10.0	06/05/2025	ND	201	100	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	06/05/2025	ND					

Surrogate: 1-Chlorooctane *82.3 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *84.4 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

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:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/06/2025	Sampling Type:	Soil
Project Name:	LEA UNIT 44H	Sampling Condition:	Cool & Intact
Project Number:	2717	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NEW MEXICO		

Sample ID: CS-2 (1.5') (H253381-02)

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	06/06/2025	ND	2.27	113	2.00	3.05	
Toluene*	<0.050	0.050	06/06/2025	ND	2.07	104	2.00	4.22	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.07	103	2.00	3.73	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.36	106	6.00	3.75	
Total BTEX	<0.300	0.300	06/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.0 %* *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	**96.0**	16.0	06/06/2025	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	06/06/2025	ND	203	102	200	2.67	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	201	100	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane *57.9 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *56.3 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

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:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/06/2025	Sampling Type:	Soil
Project Name:	LEA UNIT 44H	Sampling Condition:	Cool & Intact
Project Number:	2717	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NEW MEXICO		

Sample ID: SW-1 (1.5') (H253381-03)

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	06/06/2025	ND	2.27	113	2.00	3.05	
Toluene*	<0.050	0.050	06/06/2025	ND	2.07	104	2.00	4.22	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.07	103	2.00	3.73	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.36	106	6.00	3.75	
Total BTEX	<0.300	0.300	06/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.1 %* *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	06/06/2025	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	06/06/2025	ND	203	102	200	2.67	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	201	100	200	2.95	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane *69.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *70.9 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

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:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/06/2025	Sampling Type:	Soil
Project Name:	LEA UNIT 44H	Sampling Condition:	Cool & Intact
Project Number:	2717	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NEW MEXICO		

Sample ID: SW-2 (1.5') (H253381-04)

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	06/06/2025	ND	2.27	113	2.00	3.05	
Toluene*	<0.050	0.050	06/06/2025	ND	2.07	104	2.00	4.22	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.07	103	2.00	3.73	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.36	106	6.00	3.75	
Total BTEX	<0.300	0.300	06/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.5 %* *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	**16.0**	16.0	06/06/2025	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	06/06/2025	ND	212	106	200	0.820	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	199	99.3	200	0.575	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane *95.1 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *92.9 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

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:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/06/2025	Sampling Type:	Soil
Project Name:	LEA UNIT 44H	Sampling Condition:	Cool & Intact
Project Number:	2717	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NEW MEXICO		

Sample ID: SW-3 (1.5') (H253381-05)

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	06/06/2025	ND	2.27	113	2.00	3.05	
Toluene*	<0.050	0.050	06/06/2025	ND	2.07	104	2.00	4.22	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.07	103	2.00	3.73	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.36	106	6.00	3.75	
Total BTEX	<0.300	0.300	06/06/2025	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	**32.0**	16.0	06/06/2025	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	06/06/2025	ND	212	106	200	0.820	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	199	99.3	200	0.575	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane *96.2 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *93.5 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

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:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/06/2025	Sampling Type:	Soil
Project Name:	LEA UNIT 44H	Sampling Condition:	Cool & Intact
Project Number:	2717	Sample Received By:	Alyssa Parras
Project Location:	CIMAREX-LEA COUNTY, NEW MEXICO		

Sample ID: SW-4 (1.5') (H253381-06)

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	06/06/2025	ND	2.27	113	2.00	3.05	
Toluene*	<0.050	0.050	06/06/2025	ND	2.07	104	2.00	4.22	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.07	103	2.00	3.73	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.36	106	6.00	3.75	
Total BTEX	<0.300	0.300	06/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.4 %* *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	**16.0**	16.0	06/06/2025	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	06/06/2025	ND	212	106	200	0.820	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	199	99.3	200	0.575	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane *93.0 %* *44.4-145*

Surrogate: 1-Chlorooctadecane *91.7 %* *40.6-153*

Cardinal Laboratories *=Accredited Analyte

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

Work Order No: H253381

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:	Lea Unit 44H	Turn Around	
Project Number:	2717	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	24 hr
Sampler's Name:	JDC		
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:	CF: 0.3
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	5.2
Total Containers:		Corrected Temperature:	5.5

Sample Identification	Date	Time	Soil	Water	Grab/ Comp	# of Cont	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Hold
CS-1 (1.5')	6/5/2025		X		C	1	X	X	X	
CS-2 (1.5')	6/5/2025		X		C	1	X	X	X	
SW-1 (1.5')	6/5/2025		X		C	1	X	X	X	
SW-2 (1.5')	6/5/2025		X		C	1	X	X	X	
SW-3 (1.5')	6/5/2025		X		C	1	X	X	X	
SW-4 (1.5')	6/5/2025		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
			6/5/25 1505

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ashton Thielke
Carmona Resources
310 W Wall St
Ste 500
Midland, Texas 79701

Generated 6/11/2025 12:29:27 PM

JOB DESCRIPTION

Lea Unit 44H
Lea County, New Mexico

JOB NUMBER

880-59113-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

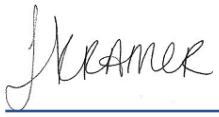
Eurofins Midland

Job Notes

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

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

Authorization



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

Client: Carmona Resources
Project/Site: Lea Unit 44H

Laboratory Job ID: 880-59113-1
SDG: Lea County, New Mexico

Table of Contents

Definitions/Glossary

Client: Carmona Resources
Project/Site: Lea Unit 44H

Job ID: 880-59113-1
SDG: Lea County, New Mexico

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Carmona Resources
Project: Lea Unit 44H

Job ID: 880-59113-1

Job ID: 880-59113-1 Eurofins Midland

Job Narrative
880-59113-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt
The sample was received on 6/9/2025 3:32 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.9°C.

Receipt Exceptions
The following sample was received and analyzed from an unpreserved bulk soil jar: Backfill (880-59113-1).

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

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-111853 and analytical batch 880-111854 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: Backfill (880-59113-1), (880-59089-A-1-A), (880-59089-A-1-B MS) and (880-59089-A-1-C MSD).

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

Client Sample Results

Client: Carmona Resources
Project/Site: Lea Unit 44H

Job ID: 880-59113-1
SDG: Lea County, New Mexico

Client Sample ID: Backfill

Date Collected: 06/09/25 00:00
Date Received: 06/09/25 15:32

Lab Sample ID: 880-59113-1

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/10/25 09:35	06/10/25 11:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/10/25 09:35	06/10/25 11:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/10/25 09:35	06/10/25 11:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/10/25 09:35	06/10/25 11:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/10/25 09:35	06/10/25 11:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/10/25 09:35	06/10/25 11:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*06/10/25 09:35*	*06/10/25 11:43*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*06/10/25 09:35*	*06/10/25 11:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/10/25 11:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/11/25 02:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/10/25 09:02	06/11/25 02:24	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/10/25 09:02	06/11/25 02:24	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/10/25 09:02	06/11/25 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*100*		*70 - 130*	*06/10/25 09:02*	*06/11/25 02:24*	*1*
o-Terphenyl (Surr)	*94*		*70 - 130*	*06/10/25 09:02*	*06/11/25 02:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**87.0**		9.90		mg/Kg			06/10/25 10:44	1

Surrogate Summary

Client: Carmona Resources
Project/Site: Lea Unit 44H

Job ID: 880-59113-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-59113-1	Backfill	102	99
880-59113-1 MS	Backfill	93	90
880-59113-1 MSD	Backfill	92	90
LCS 880-111868/1-A	Lab Control Sample	93	88
LCSD 880-111868/2-A	Lab Control Sample Dup	93	90
MB 880-111868/5-A	Method Blank	95	94

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-59113-1	Backfill	100	94
880-59113-1 MS	Backfill	108	96
880-59113-1 MSD	Backfill	109	97
LCS 880-111864/2-A	Lab Control Sample	78	83
LCSD 880-111864/3-A	Lab Control Sample Dup	99	85
MB 880-111864/1-A	Method Blank	85	83

Surrogate Legend

1CO = 1-Chlorooctane (Surr)
OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Carmona Resources
Project/Site: Lea Unit 44H

Job ID: 880-59113-1
SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-111868/5-A
Matrix: Solid
Analysis Batch: 111858

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111868

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/10/25 09:35	06/10/25 11:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/10/25 09:35	06/10/25 11:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/10/25 09:35	06/10/25 11:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/10/25 09:35	06/10/25 11:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/10/25 09:35	06/10/25 11:21	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/10/25 09:35	06/10/25 11:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*06/10/25 09:35*	*06/10/25 11:21*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*06/10/25 09:35*	*06/10/25 11:21*	*1*

Lab Sample ID: LCS 880-111868/1-A
Matrix: Solid
Analysis Batch: 111858

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111868

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1063		mg/Kg		106	70 - 130		
Toluene			0.100	0.09667		mg/Kg		97	70 - 130		
Ethylbenzene			0.100	0.1017		mg/Kg		102	70 - 130		
m-Xylene & p-Xylene			0.200	0.2055		mg/Kg		103	70 - 130		
o-Xylene			0.100	0.1013		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

Lab Sample ID: LCSD 880-111868/2-A
Matrix: Solid
Analysis Batch: 111858

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111868

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1104		mg/Kg		110	70 - 130	4	35
Toluene			0.100	0.09886		mg/Kg		99	70 - 130	2	35
Ethylbenzene			0.100	0.1044		mg/Kg		104	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.2108		mg/Kg		105	70 - 130	3	35
o-Xylene			0.100	0.1057		mg/Kg		106	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 880-59113-1 MS
Matrix: Solid
Analysis Batch: 111858

Client Sample ID: Backfill
Prep Type: Total/NA
Prep Batch: 111868

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.1093		mg/Kg		109	70 - 130		
Toluene	<0.00200	U	0.100	0.09436		mg/Kg		94	70 - 130		

QC Sample Results

Client: Carmona Resources
Project/Site: Lea Unit 44H

Job ID: 880-59113-1
SDG: Lea County, New Mexico

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

Lab Sample ID: 880-59113-1 MS
Matrix: Solid
Analysis Batch: 111858

Client Sample ID: Backfill
Prep Type: Total/NA
Prep Batch: 111868

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.09855		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2004		mg/Kg		100	70 - 130
o-Xylene	<0.00200	U	0.100	0.1003		mg/Kg		100	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 880-59113-1 MSD
Matrix: Solid
Analysis Batch: 111858

Client Sample ID: Backfill
Prep Type: Total/NA
Prep Batch: 111868

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.1004		mg/Kg		100	70 - 130	8	35
Toluene	<0.00200	U	0.100	0.09152		mg/Kg		92	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.100	0.09301		mg/Kg		93	70 - 130	6	35
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1888		mg/Kg		94	70 - 130	6	35
o-Xylene	<0.00200	U	0.100	0.09557		mg/Kg		96	70 - 130	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

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

Lab Sample ID: MB 880-111864/1-A
Matrix: Solid
Analysis Batch: 111872

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 111864

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/10/25 09:02	06/11/25 01:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/10/25 09:02	06/11/25 01:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/10/25 09:02	06/11/25 01:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*85*		*70 - 130*	*06/10/25 09:02*	*06/11/25 01:37*	*1*
o-Terphenyl (Surr)	*83*		*70 - 130*	*06/10/25 09:02*	*06/11/25 01:37*	*1*

Lab Sample ID: LCS 880-111864/2-A
Matrix: Solid
Analysis Batch: 111872

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	875.1		mg/Kg		88	70 - 130
Diesel Range Organics (Over C10-C28)	1000	928.3		mg/Kg		93	70 - 130

Eurofins Midland

QC Sample Results

Client: Carmona Resources
Project/Site: Lea Unit 44H

Job ID: 880-59113-1
SDG: Lea County, New Mexico

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

Lab Sample ID: LCS 880-111864/2-A
Matrix: Solid
Analysis Batch: 111872

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 111864

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	78		70 - 130
o-Terphenyl (Surr)	83		70 - 130

Lab Sample ID: LCSD 880-111864/3-A
Matrix: Solid
Analysis Batch: 111872

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 111864

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	901.1		mg/Kg		90	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	904.8		mg/Kg		90	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	99		70 - 130
o-Terphenyl (Surr)	85		70 - 130

Lab Sample ID: 880-59113-1 MS
Matrix: Solid
Analysis Batch: 111872

Client Sample ID: Backfill
Prep Type: Total/NA
Prep Batch: 111864

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	704.2		mg/Kg		71	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	998	850.3		mg/Kg		85	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane (Surr)	108		70 - 130
o-Terphenyl (Surr)	96		70 - 130

Lab Sample ID: 880-59113-1 MSD
Matrix: Solid
Analysis Batch: 111872

Client Sample ID: Backfill
Prep Type: Total/NA
Prep Batch: 111864

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	707.6		mg/Kg		71	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	846.0		mg/Kg		85	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane (Surr)	109		70 - 130
o-Terphenyl (Surr)	97		70 - 130

QC Sample Results

Client: Carmona Resources
Project/Site: Lea Unit 44H

Job ID: 880-59113-1
SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-111853/1-A
Matrix: Solid
Analysis Batch: 111854

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<10.0	U	10.0		mg/Kg			06/10/25 08:51	1

Lab Sample ID: LCS 880-111853/2-A
Matrix: Solid
Analysis Batch: 111854

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	244.1		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-111853/3-A
Matrix: Solid
Analysis Batch: 111854

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	244.9		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 880-59089-A-1-B MS
Matrix: Solid
Analysis Batch: 111854

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	156	F1	251	461.6	F1	mg/Kg		122	90 - 110		

Lab Sample ID: 880-59089-A-1-C MSD
Matrix: Solid
Analysis Batch: 111854

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	156	F1	251	458.0	F1	mg/Kg		120	90 - 110	1	20

QC Association Summary

Client: Carmona Resources
Project/Site: Lea Unit 44H

Job ID: 880-59113-1
SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 111858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59113-1	Backfill	Total/NA	Solid	8021B	111868
MB 880-111868/5-A	Method Blank	Total/NA	Solid	8021B	111868
LCS 880-111868/1-A	Lab Control Sample	Total/NA	Solid	8021B	111868
LCSD 880-111868/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	111868
880-59113-1 MS	Backfill	Total/NA	Solid	8021B	111868
880-59113-1 MSD	Backfill	Total/NA	Solid	8021B	111868

Prep Batch: 111868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59113-1	Backfill	Total/NA	Solid	5035	
MB 880-111868/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-111868/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-111868/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-59113-1 MS	Backfill	Total/NA	Solid	5035	
880-59113-1 MSD	Backfill	Total/NA	Solid	5035	

Analysis Batch: 111995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59113-1	Backfill	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 111864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59113-1	Backfill	Total/NA	Solid	8015NM Prep	
MB 880-111864/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-111864/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-111864/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-59113-1 MS	Backfill	Total/NA	Solid	8015NM Prep	
880-59113-1 MSD	Backfill	Total/NA	Solid	8015NM Prep	

Analysis Batch: 111872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59113-1	Backfill	Total/NA	Solid	8015B NM	111864
MB 880-111864/1-A	Method Blank	Total/NA	Solid	8015B NM	111864
LCS 880-111864/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	111864
LCSD 880-111864/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	111864
880-59113-1 MS	Backfill	Total/NA	Solid	8015B NM	111864
880-59113-1 MSD	Backfill	Total/NA	Solid	8015B NM	111864

Analysis Batch: 111975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59113-1	Backfill	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 111853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59113-1	Backfill	Soluble	Solid	DI Leach	
MB 880-111853/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-111853/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-111853/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Carmona Resources
Project/Site: Lea Unit 44H

Job ID: 880-59113-1
SDG: Lea County, New Mexico

HPLC/IC (Continued)

Leach Batch: 111853 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59089-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-59089-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 111854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-59113-1	Backfill	Soluble	Solid	300.0	111853
MB 880-111853/1-A	Method Blank	Soluble	Solid	300.0	111853
LCS 880-111853/2-A	Lab Control Sample	Soluble	Solid	300.0	111853
LCSD 880-111853/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	111853
880-59089-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	111853
880-59089-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	111853

Lab Chronicle

Client: Carmona Resources
Project/Site: Lea Unit 44H

Job ID: 880-59113-1
SDG: Lea County, New Mexico

Client Sample ID: Backfill

Date Collected: 06/09/25 00:00
Date Received: 06/09/25 15:32

Lab Sample ID: 880-59113-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	111868	06/10/25 09:35	AA	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	111858	06/10/25 11:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			111995	06/10/25 11:43	SM	EET MID
Total/NA	Analysis	8015 NM		1			111975	06/11/25 02:24	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	111864	06/10/25 09:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	111872	06/11/25 02:24	TKC	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	111853	06/09/25 16:52	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	111854	06/10/25 10:44	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Carmona Resources
Project/Site: Lea Unit 44H

Job ID: 880-59113-1
SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	06-30-25

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

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

Method Summary

Client: Carmona Resources
Project/Site: Lea Unit 44H

Job ID: 880-59113-1
SDG: Lea County, New Mexico

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Carmona Resources
Project/Site: Lea Unit 44H

Job ID: 880-59113-1
SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-59113-1	Backfill	Solid	06/09/25 00:00	06/09/25 15:32

Chain of Custody

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

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:	Lea Unit 44H	Turn Around	
Project Number:	2717	☐ Routine	☑ Rush
Project Location	Lea County, New Mexico	Due Date:	48 hr
Sampler's Name:	GPJ		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.1
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.0
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	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 300.0	Hold	Sample Comments
Backfill	6/9/2025		X		C	1		X	X	X		

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
			10/9/25 1530

Login Sample Receipt Checklist

Client: Carmona Resources

Job Number: 880-59113-1
SDG Number: Lea County, New Mexico

Login Number: 59113
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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

QUESTIONS

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 504747
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nRM2024760291**
Incident Name	**NRM2024760291 LEA FED UNIT #44H @ 30-025-42885**
Incident Type	**Oil Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-025-42885] LEA UNIT #044H**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	LEA FED UNIT #44H
Date Release Discovered	08/17/2020
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil 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: Other | Other (Specify) | Crude Oil | Released: 42 BBL | Recovered: 30 BBL | Lost: 12 BBL.
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	*Not answered.*
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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QUESTIONS (continued)

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 504747
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**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: 09/10/2025

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QUESTIONS (continued)

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 504747
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 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	Greater than 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	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	3530
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1160
GRO+DRO (EPA SW-846 Method 8015M)	1160
BTEX (EPA SW-846 Method 8021B or 8260B)	0
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	06/05/2025
On what date will (or did) the final sampling or liner inspection occur	06/05/2025
On what date will (or was) the remediation complete(d)	06/05/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	380
What is the estimated volume (in cubic yards) that will be remediated	25
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: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 504747
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	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: 09/10/2025
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.	

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QUESTIONS (continued)

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 504747
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only *Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.*	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 504747
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**469781**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**06/05/2025**
What was the (estimated) number of samples that were to be gathered	**5**
What was the sampling surface area in square feet	**457**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	380
What was the total volume (cubic yards) remediated	25
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Based off of the site assessment, the area of S-1, which exceeded Table 1 standards for GW>100', was excavated to a depth of 1.5'. The well pad will be remediated/reclaimed per NMAC 19.15.29.13 once oil and gas operations discontinue.

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

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

I hereby agree and sign off to the above statement	Name: Ashton Thielke Title: EHS Specialist Email: Ashton.Thielke@coterra.com Date: 09/10/2025

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QUESTIONS (continued)

Operator: Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	OGRID: 330396
	Action Number: 504747
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Operator:	OGRID:
Avant Operating, LLC 6001 Deauville Blvd Midland, TX 79706	330396
	Action Number: 504747
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Remediation closure is approved.	9/16/2025
michael.buchanan	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	9/16/2025
michael.buchanan	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	9/16/2025
michael.buchanan	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	9/16/2025
michael.buchanan	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	9/16/2025
michael.buchanan	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	9/16/2025